134

SERVICE MANUAL PM550DC

marantz®

model PM550DC

Stereo Console Amplifier

MARANTZ DESIGN AND SERVICE

Using superior design and selected high grade components, MARANTZ Company has created the ultimate in stereo sound. Only original MARANTZ parts can insure that your MARANTZ product will continue to perform to the specifications for which it is famous.

Parts for your MARANTZ stereo are generally available within 72 hours throughout the nation via a toll-free line to our National Parts Depot in California. The sales professionals who take your call immediately refer to their own desk top computer terminal and can quickly determine the availability and price information you require. If, for some reason, your order should exceed our available stock, we usually can instantly provide an alternate replacement part or current delivery information. When the order is placed and confirmed, the computer simultaneously generates "hard copy" orders at the distribution center. As hard copies come directly from the computer to the national parts depot, your requested stock is assembled and prepared for shipment and placed on the first available carrier for delivery to you.

ORDERING PARTS

Phone orders will eliminate mail delays, and we encourage the use of this method. If you order by mail, use MARANTZ parts order froms which are available from our National Parts Depot located at the following address:

SUPERSCOPE NATIONAL PARTS DEPARTMENT
20525 Nordhoff Street
Chatsworth, California 91311
Phone: 1-800-423-5108
1-213-998-9333

The following information must be supplied to eliminate delays in processing your order:

1. Complete address.
2. Complete part numbers.
3. Complete description of parts.
4. Model number for which part is required (indicate MARANTZ).
5. Account number (for account customers only).

Direct consumers will be provided with the current retail price quotation on available parts in order to advise them of the cost of the parts and shipping.

OVERSEAS PARTS ORDERING

Parts may also be ordered from the following overseas addresses:

U.S.A.
Marantz Company, Inc.
National Service Dept.
P.O. Box 577
Chatsworth, CA 91311
U.S.A.

CANADA
Superscope Canada, Ltd.
3710 Nashua Drive
Mississauga
Ontario, Canada L4V1M5

AUSTRALIA
Marantz Australia
32 Cross Street
Brookvale, NSW 2100
Australia

JAPAN
Marantz Japan, Inc.
3622 Kamitsuruma
Sagamihara-shi
Kanagawa, Japan

EUROPE

Marantz Europe S.A.
326 Avenue Louise Bte 32
1050 Brussels
Belgium

Marantz France
4 rue Bernard Palissy
92600 Asnieres
France

Marantz Audio U.K., Ltd.
193 London Road
Staines, Middlesex
United Kingdom

Marantz Germany GMBH
Max-Planck-Strasse 22
6072 Dreieich
West Germany

Marantz Belgium
45 rue Auguste Van Zande
1080 Brussels
Belgium

Marantz Svenska A.B.
Franzengatan 6
10425 Stockholm
Sweden

Marantz Norske A.S.
Refstadalleen 13
Oslo 5
Norway

All of the above locations are fully equipped to take care of your total service needs. Because various countries have differing configuration requirements, it is necessary that you contact the service facility in your particular country. In the event that there is no service location listed for your country, please contact the nearest facility for the necessary assistance.

1. IDLING CURRENT ADJUSTMENT

Adjust R783 so that the voltage at TP1 is 8 mV 30 seconds after the power is turned on. Adjust R784 so that the voltage at TP2 is the same as above.
These values are for estimated adjustments. The actual voltage when the unit is warmed up should be 12 mV, thus the idling current is about 36 mV.

2. LED POWER LEVEL ADJUSTMENT

Apply a sine wave signal of 1 kHz to the AUX jacks and adjust so that the output voltage is 20V with a load of 8Ω.
Adjust RX07 so that only L channel level LED (QX17) of 8Ω, 100W goes off. Adjust RX08 for the R channel. Confirm that the QX17 and QX18 light up when the output voltage slightly excees 20V.

Table 1. Test Equipment Required for Servicing

Item	Manufacturer and Model No.	Use
Distortion Analyzer Audio Oscillator AC Voltmeter	Sound Technology Model 1700B	Distortion Measurements Sinewave and squarewave signal source voltage measurements (AC)
Oscilloscope	Tektronix Model T932 Philips Model 3232	Waveform analysis and trouble shooting and ASO alignment
Circuit Tester		Trouble shooting
DC Voltmeter	Fluke Model 8000 "Digital" Simpson Model 313, Triplet Model 801	Voltage measurements (DC)
AC Wattmeter	Simpson Model 1379	Monitors primary power to amplifier
AC Ammeter	Commercial Grade (1 ~ 10A)	Monitors amplifier output under short circuit condition
Line Voltmeter	Simpson Model 1359	Monitors potential of primary power to amplifier
Variable Autotransformer	Superior Electronic Co., Powerstet Model 116B-10A	Adjusts level of primary power to amplifier
Shorting Plug	Use phono plug with 600 ohm across center pin and shell	Shorts amplifier input to eliminate noise pickup
Output Load (8 ohms, ±0.5% 100W)	Commercial Grade	Provides 8-ohm load for amplifier output termination
Output Load (4 ohms, ±0.5% 100W)	Commercial Grade	Provides 4-ohm load for amplifier output termination
Output Load Capacitor (0.5 mfd)	Mylar	Provides capacitive load for instability checks
AC Power Control Box	Optional Item. Fabricate in accordance with Figure 1	Monitors and controls primary power for amplifier
Amplifier Output Load Box	Optional Item. Fabricate in accordance with Figure 2	Provides various amplifier loads and can monitor shorted output

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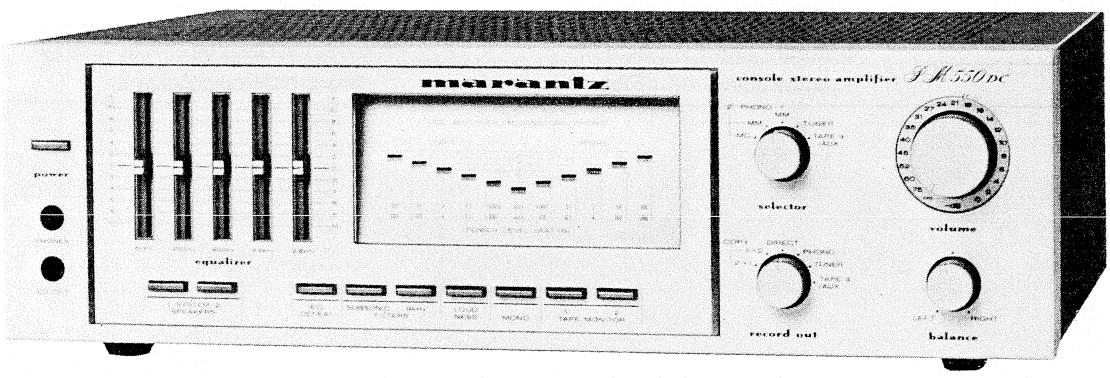


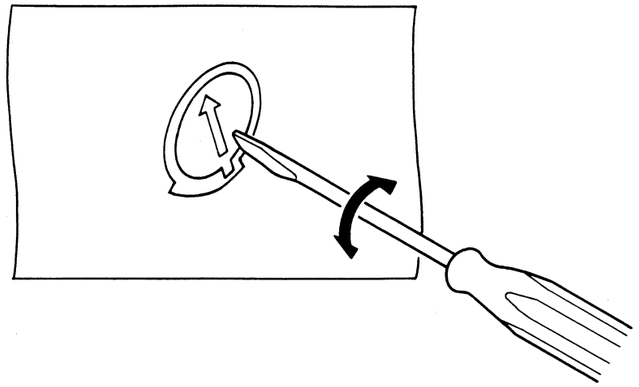
3. VOLTAGE CONVERSION

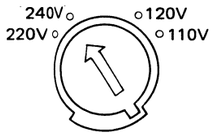
• EUROPEAN MODEL ONLY

To convert the unit to a different power source voltage, change the position as illustrated in the drawing below.

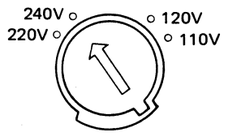
CAUTION
DISCONNECT POWER SUPPLY CORD FROM AC OUTLET BEFORE CONVERTING VOLTAGE.

Voltage Conversion Chart

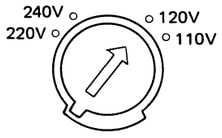




(A) Version



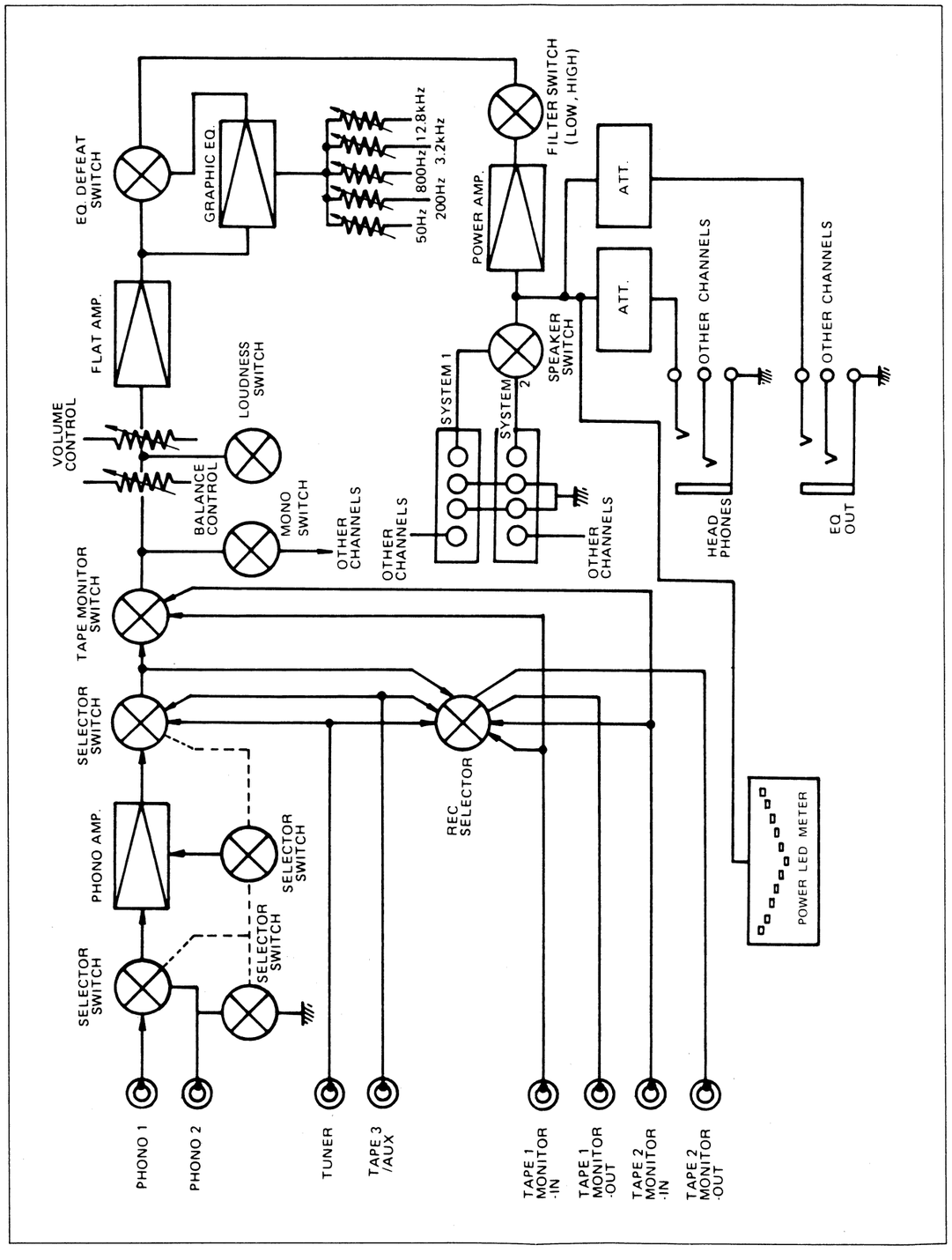
(N) Version



(P) Version

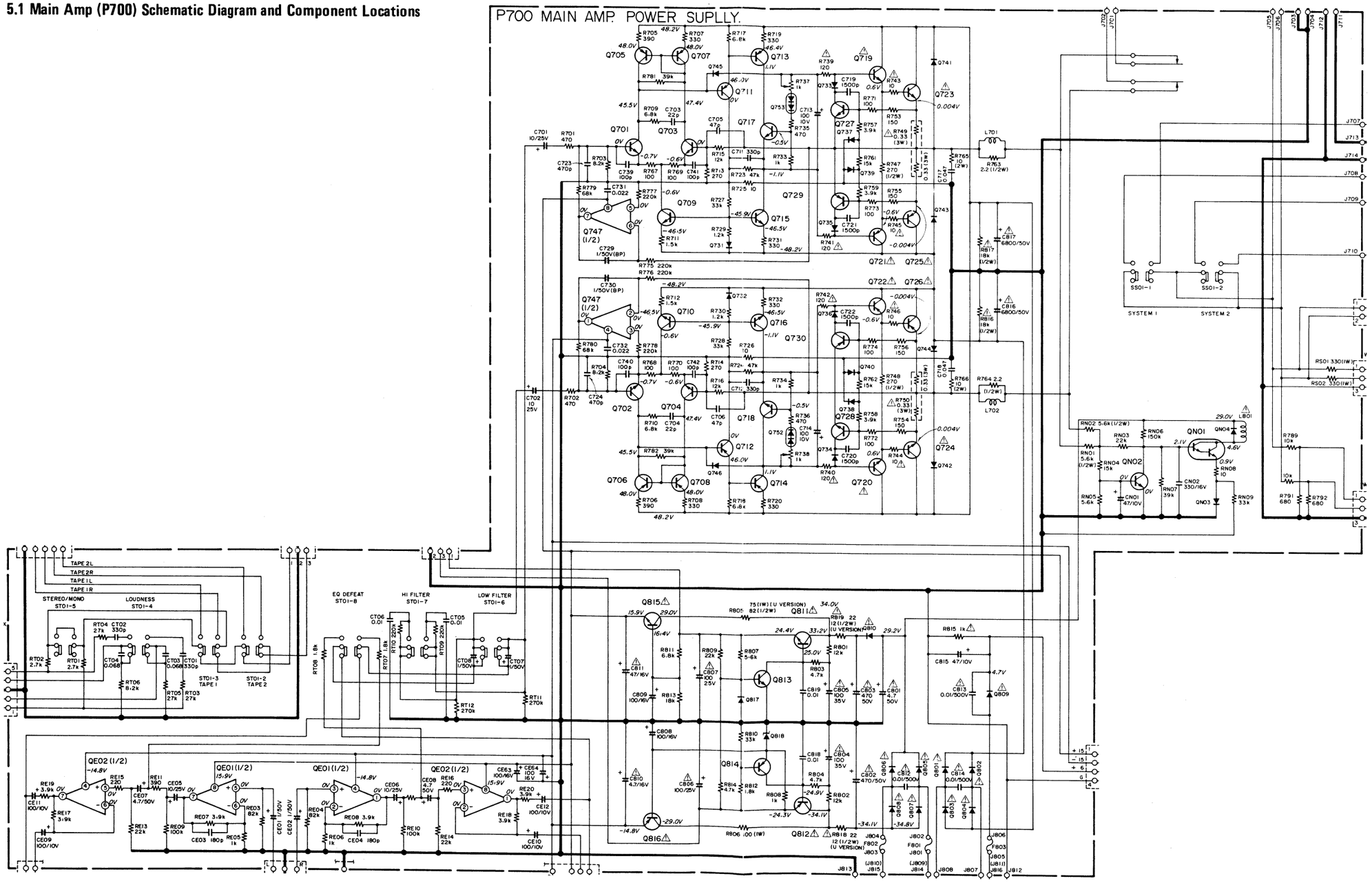
Note on safety: The parts marked with ⚠ are important parts on the safety. Please use the parts having the designated parts number without fail.

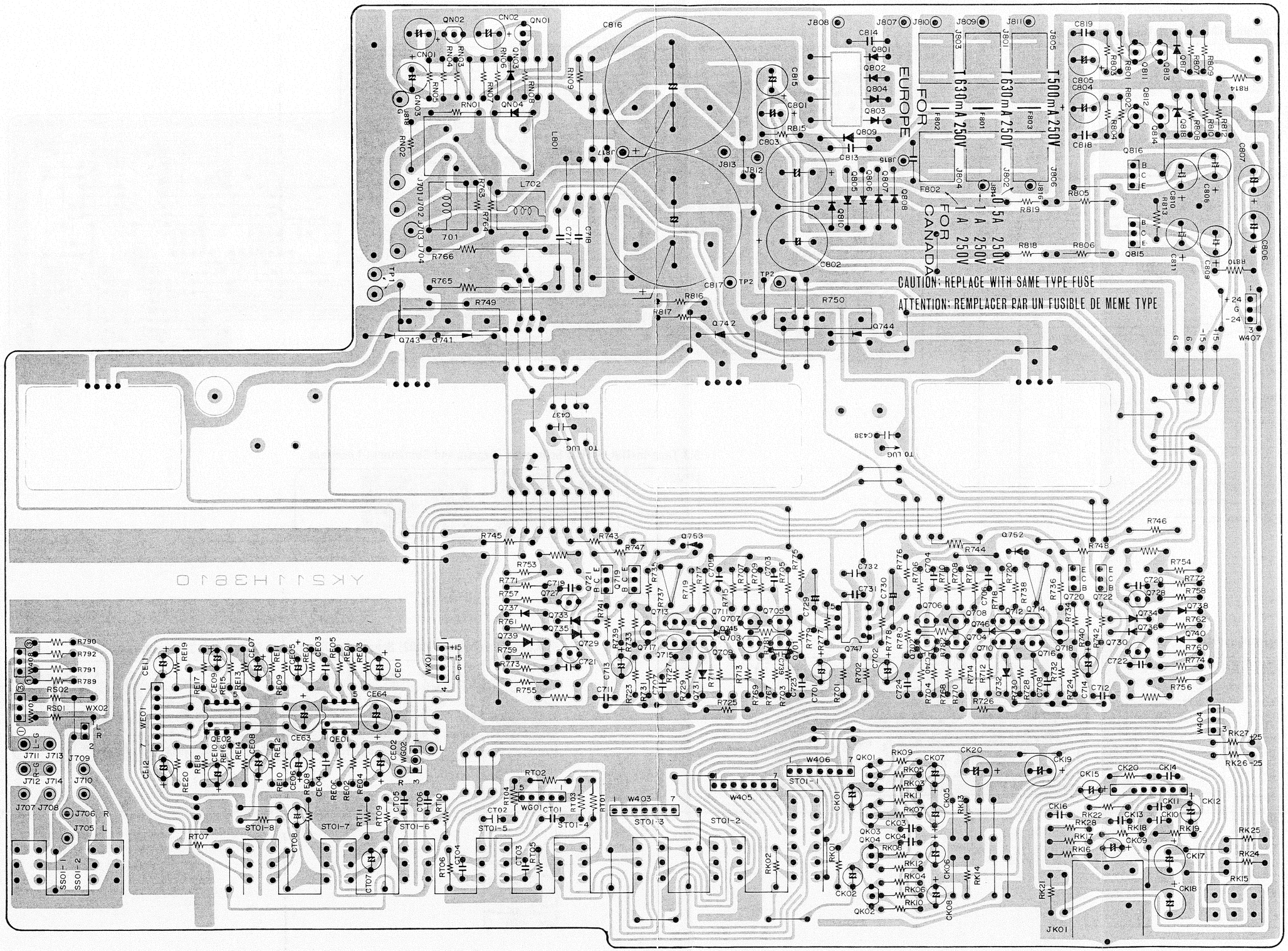
4. BLOCK DIAGRAM



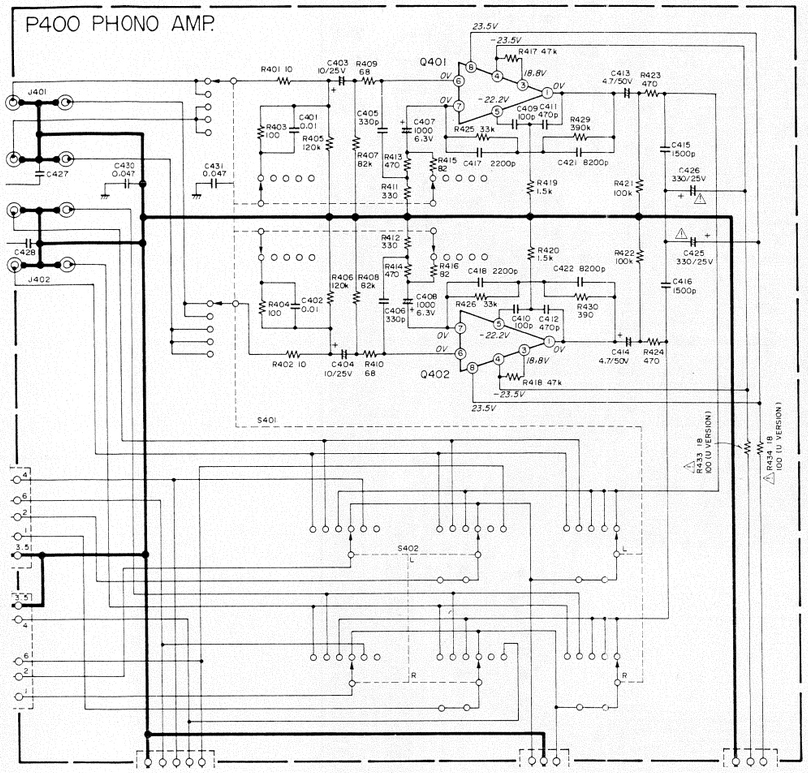
5. DIAGRAM AND COMPONET LOCATIONS

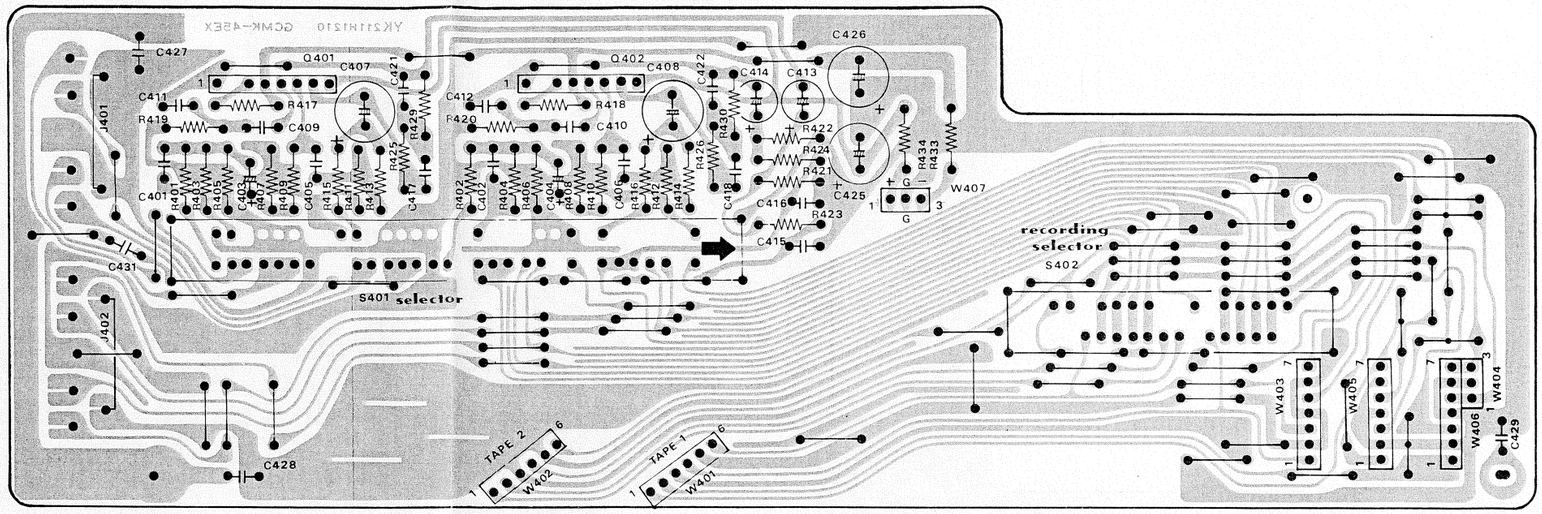
5.1 Main Amp (P700) Schematic Diagram and Component Locations



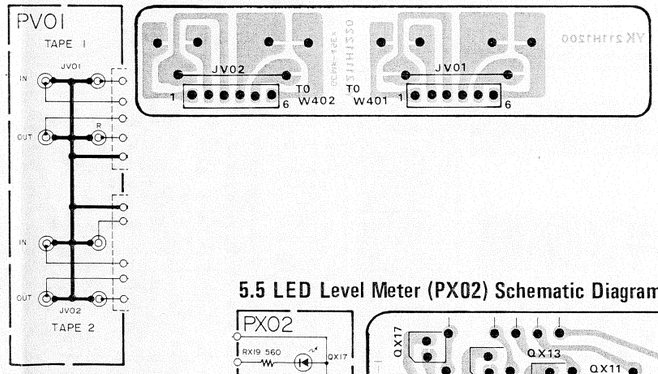

FOR EUROPE
T630mA 250V
T630mA 250V
T500mA 250V
FOR CANADA
0.5A 250V
1A 250V
CAUTION: REPLACE WITH SAME TYPE FUSE
ATTENTION: REMPLACER PAR UN FUSIBLE DE MEME TYPE
AK51138010

5.2 Phono Amp (P400) Schematic Diagram and Component Locations

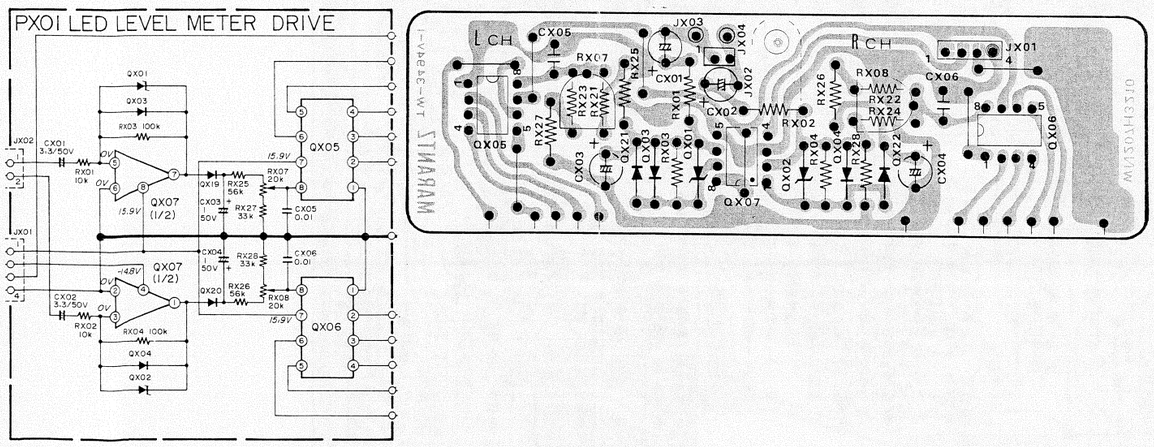




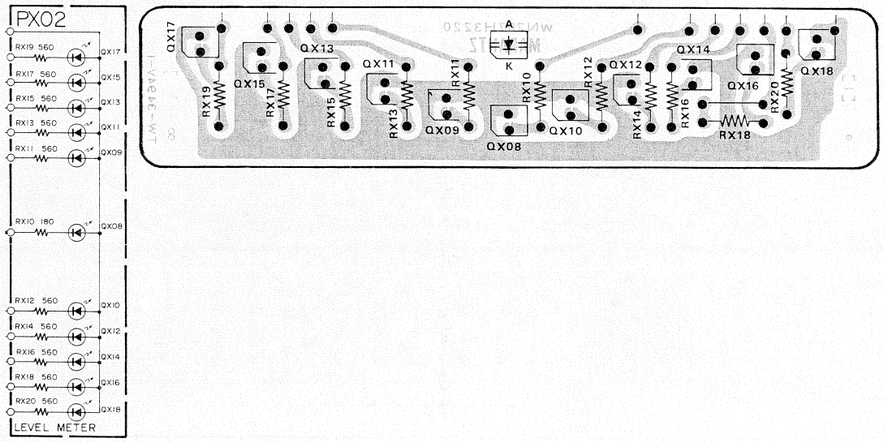
5.3 Tape In/Out (PV01) Schematic Diagram and Component Locations



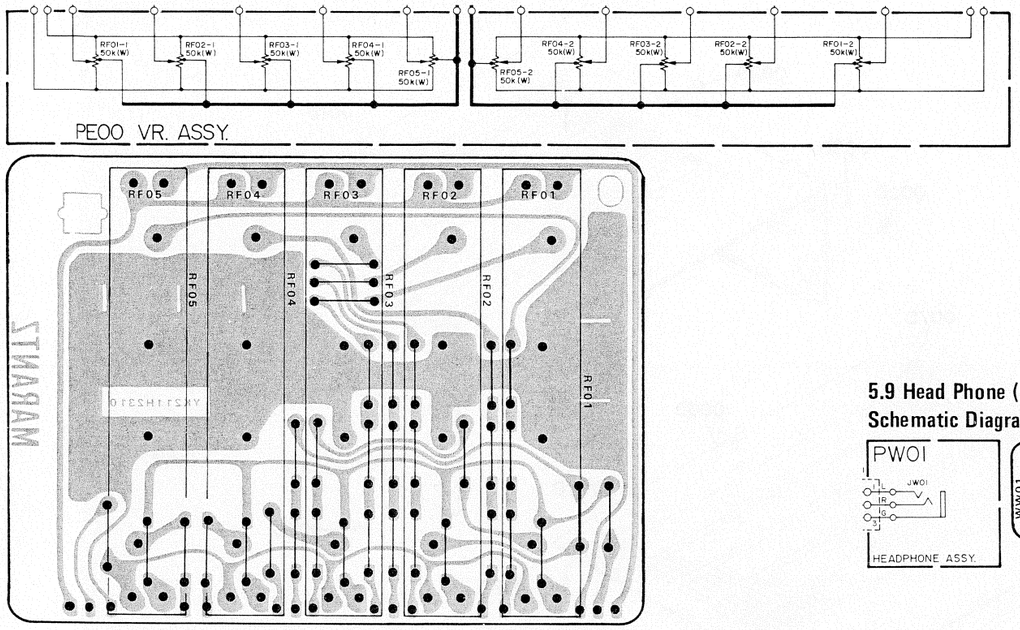
5.4 LED Level Meter Drive (PX01) Schematic Diagram and Component Locations



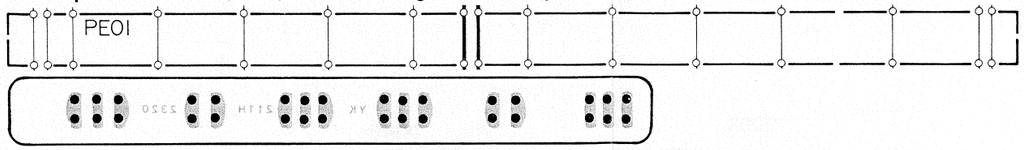
5.5 LED Level Meter (PX02) Schematic Diagram and Component Locations



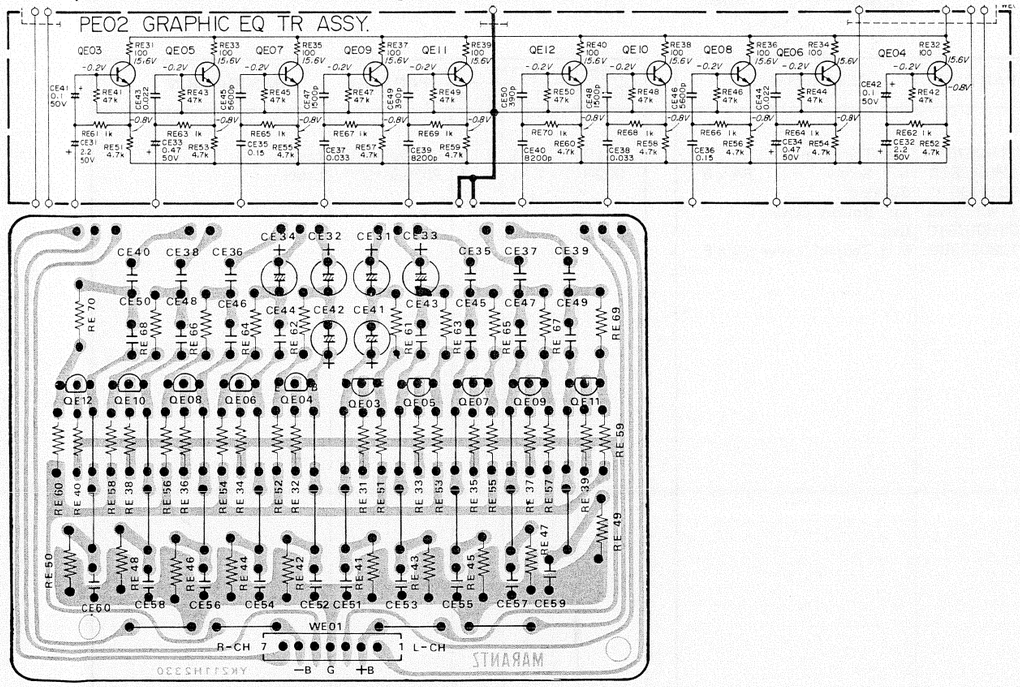
5.6 Graphic Volume (PE00) Schematic Diagram and Component Locations



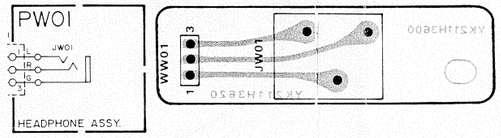
5.7 Graphic Connection (PE01) Schematic Diagram and Component Locations



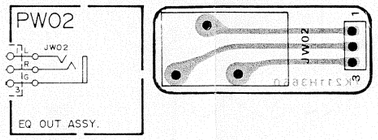
5.8 Graphic Transistor (PE02) Schematic Diagram and Component Locations



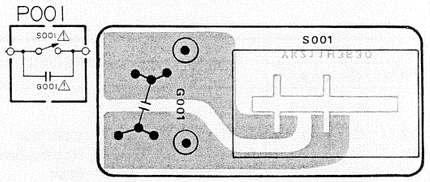
5.9 Head Phone (PW01) Schematic Diagram and Component Locations



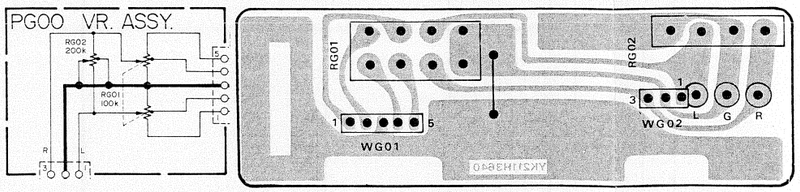
5.10 EQ Out (PW02) Schematic Diagram and Component Locations



5.11 Power Switch (P001) Schematic Diagram and Component Locations

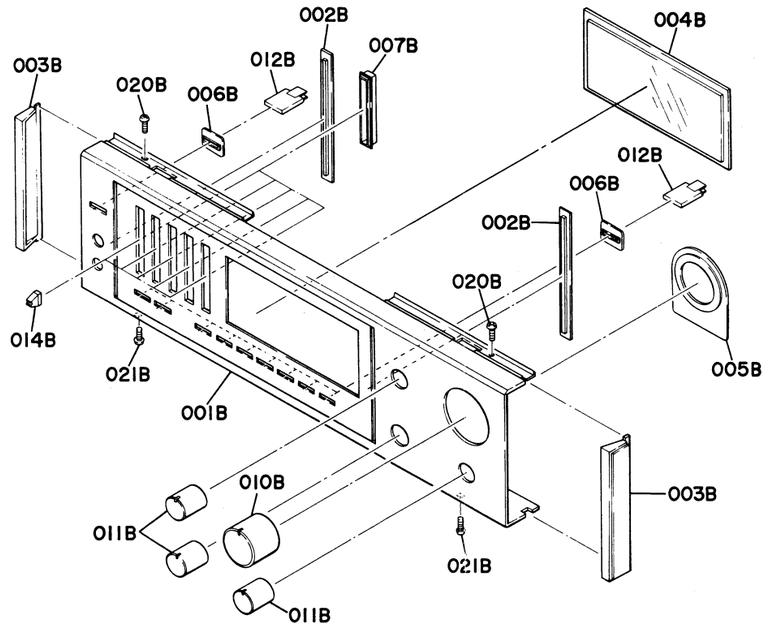


5.12 Volume Assembly (PG00) Schematic Diagram and Component Locations



. EXPLODED VIEWS AND PARTS LIST

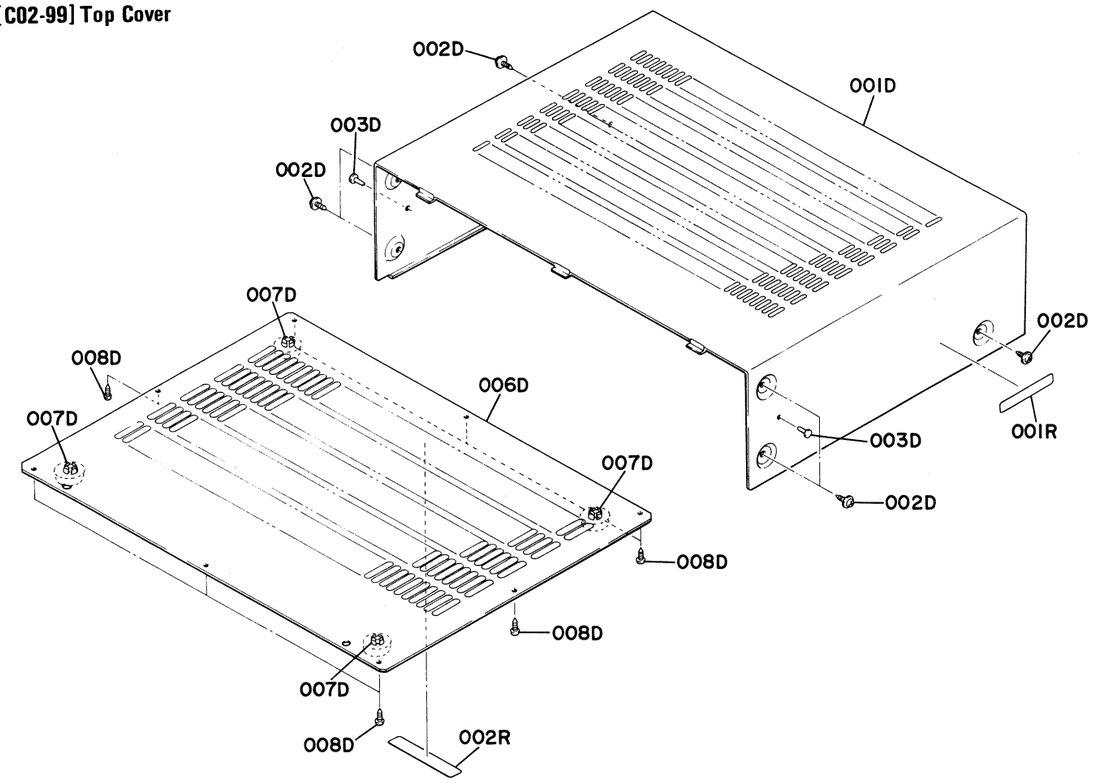
[C01-99] Front Panel



REF. DESIG.	Q'TY U	C	N	A	P	PART NO.	DESCRIPTION
A	1	1	1	1	1	211H063400	Front Panel Assembly
001B	1	1	1	1	1	211H063010	Escutcheon, Front Panel
002B	2	2	2	2	2	211H063020	Escutcheon
003B	2	2	2	2	2	211H067010	Cap, Panel Side
004B	1	1	1	1	1	211H158010	Window, Power LED
005B	1	1	1	1	1	208H063020	Escutcheon, Volume
006B	10	10	10	10	10	208H259010	Bushing, Push Switch
007B	5	5	5	5	5	2129259020	Bushing, Slide Volume

REF. DESIG.	Q'TY U	C	N	A	P	PART NO.	DESCRIPTION
010B	1	1	1	1	1	208H154010	Knob, Volume
011B	3	3	3	3	3	208H154020	Knob, Rotary Switch
012B	10	10	10	10	10	208H154060	Knob, Push
014B	5	5	5	5	5	208H154050	Knob, Slide Volume
020B	2	2	2	2	2	51280308B0	B.H. Tapped Screw B3 x 8
021B	2	2	2	2	2	51280308B0	B.H. Tapped Screw B3 x 8

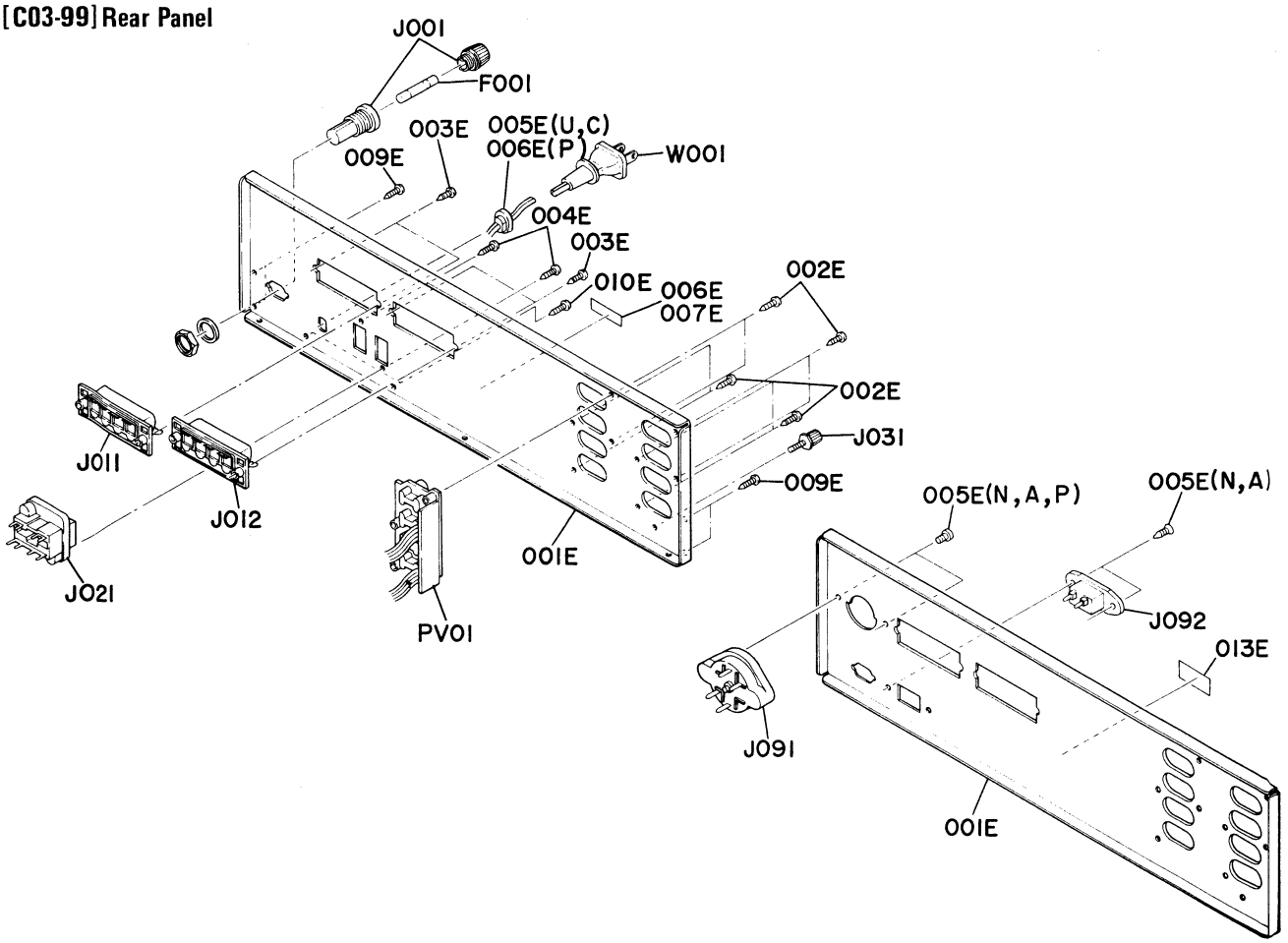
[C02-99] Top Cover



REF. DESIG.	Q'TY U	C	N	A	P	PART NO.	DESCRIPTION
001D	1	1	1	1	1	211H257010	Lid, Top Cover
002D	6	6	6	6	6	51260408Z0	B.T. Screw B4 x 8
003D	2	2	2	2	2	2991259010	Bushing
006D	1	1	1	1	1	211H257020	Lid, Bottom Cover
007D	4	4	4	4	4	403H057010	Leg
008D	8	8	8	8	8	51280308B0	B.H. Tapped Screw B3 x 8

REF. DESIG.	Q'TY U	C	N	A	P	PART NO.	DESCRIPTION
001R	1	1	1	1	1	2932861010	Label
002R	1	1	1	1	1	2578861010	Label

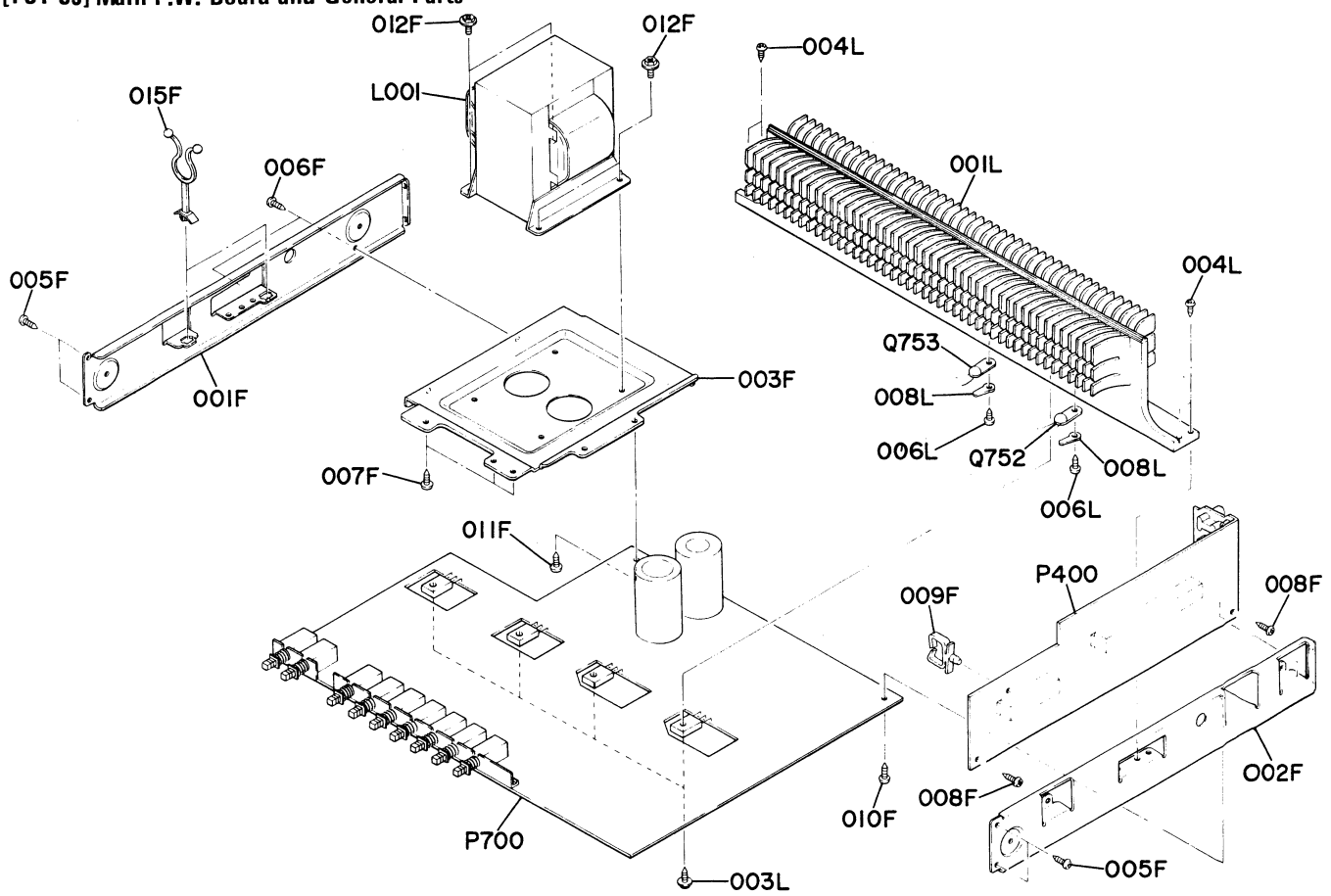
[C03-99] Rear Panel



REF. DESIG.	Q'TY U	C	N	A	P	PART NO.	DESCRIPTION
001E	1	1				211H160210	Bracket, Rear Panel
001E			1			211H160220	Bracket, Rear Panel
001E				1		211H160230	Bracket, Rear Panel
001E					1	211H160240	Bracket, Rear Panel
002E	8	8	8	8	8	51280308U0	B.H. Tapped Screw B3 x 8
003E	4	4	4	4	4	51280308U0	B.H. Tapped Screw B3 x 8
004E	2	2	2	2	2	51280308U0	B.H. Tapped Screw B3 x 8
005E	1	1				1455259030	Bushing, AC Cord
005E			2	2		51420308T0	O.C.H. Tapped Screw O3 x 8
005E			2	2	2	51280308U0	B.H. Tapped Screw B3 x 8
006E	1	1	1	1		2112265010	Indicator
006E					1	1455259030	Bushing, AC Cord
007E					1	2112265010	Indicator
009E	4	4	4	4	4	51280308U0	B.H. Tapped Screw B3 x 8
010E	2	2	2	2	2	51280308U0	B.H. Tapped Screw B3 x 8
013E			1			4581861010	Label

REF. DESIG.	Q'TY U	C	N	A	P	PART NO.	DESCRIPTION
⚠F001	1	1				FS10350010	Fuse 3.5A 250V
⚠F001			1	1		FS10125800	Fuse 1.25A 250V
⚠F001					1	FS10350030	Fuse 3.5A 250V
⚠J001	1					YJ08000310	Jack, Fuse Holder
⚠J001			1	1		YJ08000290	Jack, Fuse Holder
⚠J001		1			1	YJ08000300	Jack, Fuse Holder
J011	1	1	1	1	1	YT03040200	Terminal, System 1
J012	1	1	1	1	1	YT03040200	Terminal, System 2
⚠J021	1	1				YJ04000740	Jack, AC Outlet
⚠J021					1	YJ04000750	Jack, AC Outlet
J031	1	1	1	1	1	YL03010250	Terminal, GND
⚠J091			1	1	1	BY05080040	Voltage Selector
⚠J092			1	1		YP04000590	Plug, AC Inlet
⚠W001	1	1				YC01900070	A.C. Power Cord
⚠W001					1	YC01800190	A.C. Power Cord

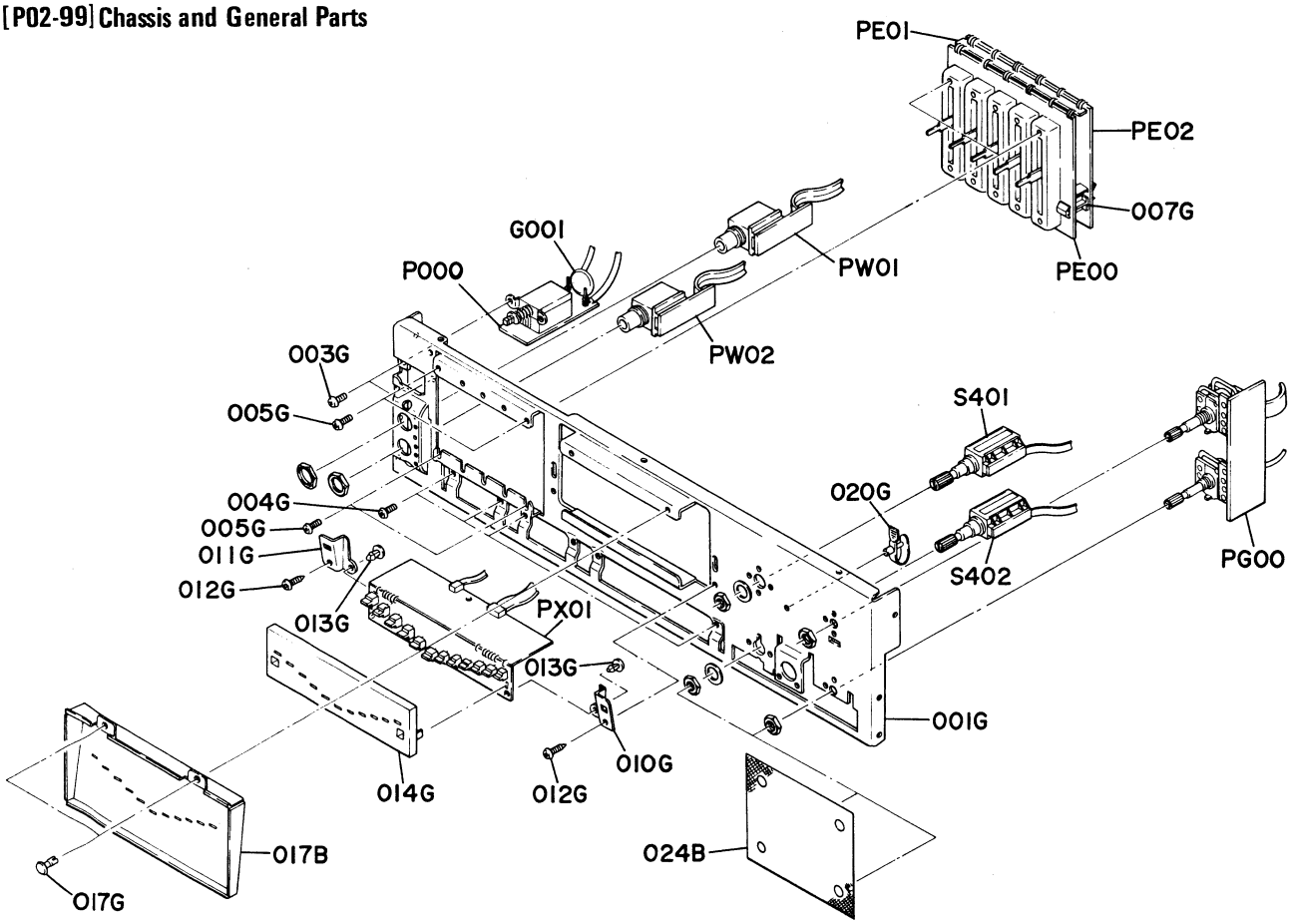
[P01-99] Main P.W. Board and General Parts



REF. DESIG.	Q'TY U	C	N	A	P	PART NO.	DESCRIPTION
001F	1	1	1	1	1	211H126010	Stay, (L)
002F	1	1	1	1	1	211H126020	Stay, (R)
003F	1	1	1	1	1	211H105010	Chassis, Transformer
005F	4	4	4	4	4	51280308B0	B.H. Tapped Screw B3 x 8
006F	2	2	2	2	2	51280308B0	B.H. Tapped Screw B3 x 8
007F	3	3	3	3	3	51280408B0	B.H. Tapped Screw B4 x 8
008F	2	2	2	2	2	51280308B0	B.H. Tapped Screw B3 x 8
009F	1	1	1	1	1	2886005050	Clamper
010F	1	1	1	1	1	51280308B0	B.H. Tapped Screw B3 x 8
011F	1	1	1	1	1	51280308B0	B.H. Tapped Screw B3 x 8
012F	4	4	4	4	4	52040410A0	H. Head Bolt, S.F H4 x 10
015F	2	2	2	2	2	2139005010	Clamper

REF. DESIG.	Q'TY U	C	N	A	P	PART NO.	DESCRIPTION
001L	1	1	1	1	1	211H267010	Heatsink
003L	4	4	4	4	4	51260312B0	B.T. Screw B3 x 12
004L	4	4	4	4	4	51280308B0	B.H. Tapped Screw B3 x 8
006L	2	2	2	2	2	51280308B0	B.H. Tapped Screw B3 x 8
008L	2	2	2	2	2	62030049W0	Lug
⚠L001	1	1				TS18614010	Power Transformer
⚠L001			1	1	1	TS19616010	Power Transformer
Q752	1	1	1	1	1	HV00010120	Varistor, MV-11Y
Q753	1	1	1	1	1	HV00010120	Varistor, MV-11Y

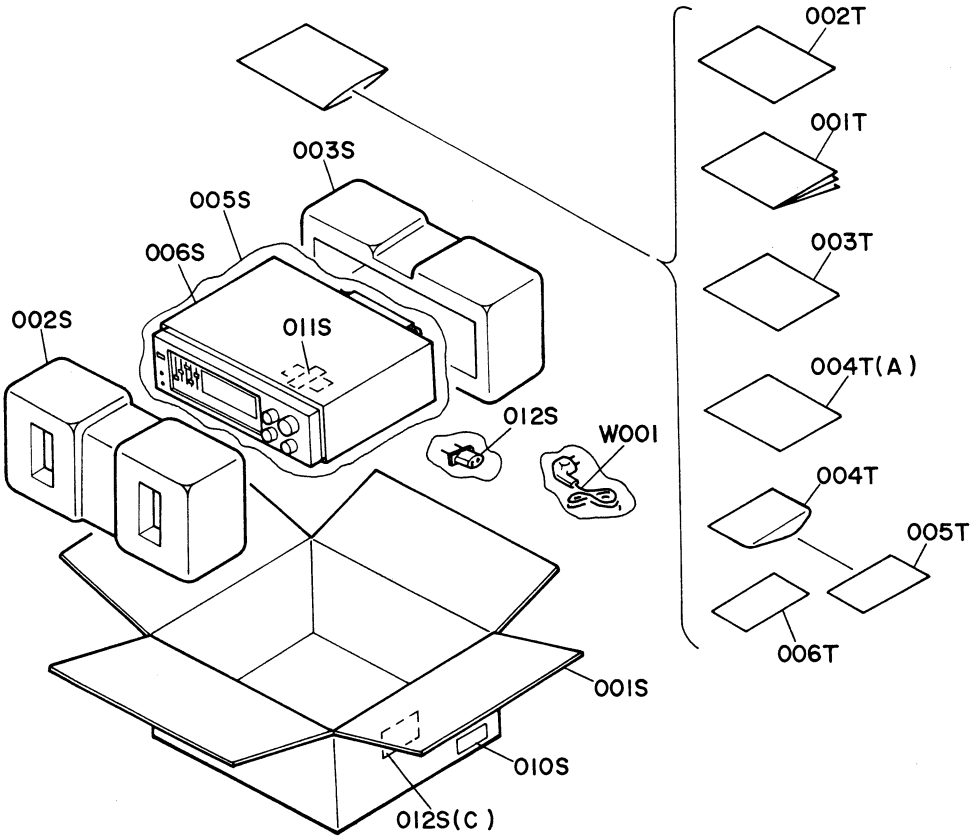
[P02-99] Chassis and General Parts



REF. DESIG.	Q'TY U	C	N	A	P	PART NO.	DESCRIPTION
017B	1	1	1	1	1	211H302010	Dial, Power Level
024B	1	1	1	1	1	211H303010	Mask
001G	1	1	1	1	1	211H160010	Bracket, Front Chassis
003G	2	2	2	2	2	51100306A9	B.H.M. Screw B3 x 6
004G	4	4	4	4	4	51100306A9	B.H.M. Screw B3 x 6
005G	4	4	4	4	4	51100306A9	B.H.M. Screw B3 x 6
007G	1	1	1	1	1	2139271020	Holder
010G	1	1	1	1	1	211H160020	Bracket, (R)
011G	1	1	1	1	1	211H160030	Bracket, (L)
012G	2	2	2	2	2	51280308B0	B.H. Tapped Screw B3 x 8
013G	2	2	2	2	2	2965005010	Clamper
014G	1	1	1	1	1	208H118010	Spacer
017G	2	2	2	2	2	2276005050	Clamper
020G	1	1	1	1	1	2137005030	Clamper

REF. DESIG.	Q'TY U	C	N	A	P	PART NO.	DESCRIPTION
⚠G001	1	1				DK18103530	Ceramic Cap. 0.01μF 125V
⚠G001			1	1		DK18103840	Ceramic Cap. 0.01μF 400V
⚠G001					1	DK18103850	Ceramic Cap. 0.01μF 250V
S401	1	1	1	1	1	SR00050070	Rotary Switch
S402	1	1	1	1	1	SR00060020	Rotary Switch

[H01-99] Packing Materials



REF. DESIG.	Q'TY U	C	N	A	P	PART NO.	DESCRIPTION
001S	1	1				211H801010	Packing Case
001S			1	1		211H801020	Packing Case
001S					1	211H801030	Packing Case
002S	1	1	1	1	1	211H809010	Cushion, Front
003S	1	1	1	1	1	211H809020	Cushion, Rear
005S	1	1	1	1	1	9090909040	Polyethylene Sheet
006S	1	1	1	1	1	2918107150	Sheet
010S	2					9526019010	Serial No. Card
010S		4				9526019020	Serial No. Card
010S			4			9526019060	Serial No. Card
010S				4		9526019030	Serial No. Card
010S					3	9526019050	Serial No. Card
011S			1			2731821010	Silicagel
012S					1	YJ04000240	Jack, AC Adaptor
012S		2				9510901020	Label

REF. DESIG.	Q'TY U	C	N	A	P	PART NO.	DESCRIPTION
001T	1			1		211H851010	Instructions
001T		1	1		1	211H851310	Instructions
002T	1			1	1	211H851020	Instructions
002T		1				211H851220	Instructions
002T			1			211H851320	Instructions
003T	1					2818854020	Guarantee Card
003T		1				2818854040	Guarantee Card
003T			1			211H856010	Circuit Diagram
003T				1		2205851040	Instructions
003T					1	2818854010	Guarantee Card
004T	1					2225813010	Envelope
004T		1				2918813010	Envelope
004T				1		9631000090	Guarantee Card
005T		1				9630000180	Guarantee Card
006T		1				9650000050	S. Station Card
006T					1	9650000010	S. Station Card
⚠W001			1			ZC01805030	A.C. Power Cord
⚠W001				1		ZC02006030	A.C. Power Cord

ELECTRICAL PARTS LIST

REF. DESIG.	Q'TY U	C	N	A	P	PART NO.	DESCRIPTION
							P400-PHONO AMP CIRCUIT BOARD
P400	1	1	1	1	1	YK211H1210	P.W. Board, Phono Amp
	1	1	1	1	1	ZZ211H1210	P.W. Board Assembly
							P400-CAPACITORS
C401	1	1	1	1	1	DF17103300	Film 0.01μF ±20%
C402	1	1	1	1	1	DF17103300	Film 0.01μF ±20%
C403	1	1	1	1	1	EA10602530	Elect 10μF 25V
C404	1	1	1	1	1	EA10602530	Elect 10μF 25V
C405	1	1	1	1	1	DK16331300	Ceramic 330pF ±10%
C406	1	1	1	1	1	DK16331300	Ceramic 330pF ±10%
C407	1	1	1	1	1	EA10800630	Elect 1000μF 6.3V
C408	1	1	1	1	1	EA10800630	Elect 1000μF 6.3V
C409	1	1	1	1	1	DK16101300	Ceramic 100pF ±10%
C410	1	1	1	1	1	DK16101300	Ceramic 100pF ±10%
C411	1	1	1	1	1	DK16471300	Ceramic 470pF ±10%
C412	1	1	1	1	1	DK16471300	Ceramic 470pF ±10%
C413	1	1	1	1	1	EA47505030	Elect 4.7μF 50V
C414	1	1	1	1	1	EA47505030	Elect 4.7μF 50V
C415	1	1	1	1	1	DF16152300	Film 1500pF ±10%
C416	1	1	1	1	1	DF16152300	Film 1500pF ±10%
C417	1	1	1	1	1	DF15222300	Film 2200pF ±5%
C418	1	1	1	1	1	DF15222300	Film 2200pF ±5%
C421	1	1	1	1	1	DF15822300	Film 8200pF ±5%
C422	1	1	1	1	1	DF15822300	Film 8200pF ±5%
⚠C425	1	1	1	1	1	EA33702530	Elect 330μF 25V
⚠C426	1	1	1	1	1	EA33702530	Elect 330μF 25V
C427	1	1	1	1	1	DK18473320	Ceramic 0.047μF
C428	1	1	1	1	1	DK18473320	Ceramic 0.047μF
C429	1	1	1	1	1	DK18473320	Ceramic 0.047μF
C430	1	1	1	1	1	DK18473320	Ceramic 0.047μF
C431	1	1	1	1	1	DK18473320	Ceramic 0.047μF
							P400-RESISTORS (All Resistors are ±5% & ¼W)
R401	1	1	1	1	1	GD05100140	10Ω
R402	1	1	1	1	1	GD05100140	10Ω
R403	1	1	1	1	1	GD05101140	100Ω
R404	1	1	1	1	1	GD05101140	100Ω
R405	1	1	1	1	1	GD05124140	120KΩ
R406	1	1	1	1	1	GD05124140	120KΩ
R407	1	1	1	1	1	GD05823140	82KΩ
R408	1	1	1	1	1	GD05823140	82KΩ
R409	1	1	1	1	1	GD05680140	68Ω
R410	1	1	1	1	1	GD05680140	68Ω
R411	1	1	1	1	1	GD05331140	330Ω
R412	1	1	1	1	1	GD05331140	330Ω
R413	1	1	1	1	1	GD05471140	470Ω
R414	1	1	1	1	1	GD05471140	470Ω
R415	1	1	1	1	1	GD05820140	82Ω
R416	1	1	1	1	1	GD05820140	82Ω
R417	1	1	1	1	1	GD05473140	47KΩ
R418	1	1	1	1	1	GD05473140	47KΩ
R419	1	1	1	1	1	GD05152140	1.5KΩ
R420	1	1	1	1	1	GD05152140	1.5KΩ
R421	1	1	1	1	1	GD05104140	100KΩ
R422	1	1	1	1	1	GD05104140	100KΩ
R423	1	1	1	1	1	GD05471140	470Ω
R424	1	1	1	1	1	GD05471140	470Ω
R425	1	1	1	1	1	GD05333140	33KΩ
R426	1	1	1	1	1	GD05333140	33KΩ
R429	1	1	1	1	1	GD05394140	390KΩ
R430	1	1	1	1	1	GD05394140	390KΩ
⚠R433	1	1	1	1	1	GG05101140	100Ω
⚠R434	1	1	1	1	1	GG05101140	100Ω

REF. DESIG.	Q'TY U	C	N	A	P	PART NO.	DESCRIPTION
							P400-IC'S
Q401	1	1	1	1	1	HC10035010	IC HA12017
Q402	1	1	1	1	1	HC10035010	IC HA12017
							P400-MISCELLANEOUS
J401	1	1	1	1	1	YT02040260	Terminal, Input
J402	1	1	1	1	1	YT02040260	Terminal, Input
S401	1	1	1	1	1	SR00050070	Rotary Switch
S402	1	1	1	1	1	SR00060020	Rotary Switch
S403	1	1	1	1	1	SS08060020	Slide Switch
S404	1	1	1	1	1	SS08060020	Slide Switch
W401	1	1	1	1	1	YU06180260	Jumper Lead
W402	1	1	1	1	1	YU06160260	Jumper Lead
W403	1	1	1	1	1	YU07240260	Jumper Lead
W404	1	1	1	1	1	YU03060260	Jumper Lead
W407	1	1	1	1	1	YU03080240	Jumper Lead
W408	1	1	1	1	1	YU03180260	Jumper Lead
							P700-MAIN AMP CIRCUIT BOARD
P700	1	1	1	1	1	YK211H3610	P.W. Board, Main Amp
	1	1				ZZ211H3610	P.W. Board Assembly
			1			ZZ211H8610	P.W. Board Assembly
				1		ZZ211H7610	P.W. Board Assembly
					1	ZZ211H6610	P.W. Board Assembly
							P700-CAPACITORS
C701	1	1	1	1	1	EA10602530	Elect 10μF 25V
C702	1	1	1	1	1	EA10602530	Elect 10μF 25V
C703	1	1	1	1	1	DD15220300	Ceramic 22pF ±5%
C704	1	1	1	1	1	DD15220300	Ceramic 22pF ±5%
C705	1	1	1	1	1	DD15470300	Ceramic 47pF ±5%
C706	1	1	1	1	1	DD15470300	Ceramic 47pF ±5%
C711	1	1	1	1	1	DK16331300	Ceramic 330pF ±10%
C712	1	1	1	1	1	DK16331300	Ceramic 330pF ±10%
C713	1	1	1	1	1	EA10701030	Elect 100μF 10V
C714	1	1	1	1	1	EA10701030	Elect 100μF 10V
C717	1	1	1	1	1	DF17473520	Film 0.047μF ±20%
C718	1	1	1	1	1	DF17473520	Film 0.047μF ±20%
C719	1	1	1	1	1	DF16152300	Film 1500pF ±10%
C720	1	1	1	1	1	DF16152300	Film 1500pF ±10%
C721	1	1	1	1	1	DF16152300	Film 1500pF ±10%
C722	1	1	1	1	1	DF16152300	Film 1500pF ±10%
C723	1	1	1	1	1	DK16471300	Ceramic 470pF ±10%
C724	1	1	1	1	1	DK16471300	Ceramic 470pF ±10%
C725	1	1	1	1	1	EA22601030	Elect 22μF 10V
C726	1	1	1	1	1	EA22601030	Elect 22μF 10V
C727	1	1	1	1	1	EA22601030	Elect 22μF 10V
C728	1	1	1	1	1	EA22601030	Elect 22μF 10V
C729	1	1	1	1	1	EQ10505030	Elect 1μF 50V
C730	1	1	1	1	1	EQ10505030	Elect 1μF 50V
C731	1	1	1	1	1	DK18223320	Ceramic 0.022μF
C732	1	1	1	1	1	DK18223320	Ceramic 0.022μF
C733	1	1	1	1	1	EA47505030	Elect 4.7μF 50V
C734	1	1	1	1	1	EA47505030	Elect 4.7μF 50V
C735	1	1	1	1	1	EA47505030	Elect 4.7μF 50V
C736	1	1	1	1	1	EA47505030	Elect 4.7μF 50V
C737	1	1	1	1	1	DK18473320	Ceramic 0.047μF
C738	1	1	1	1	1	DK18473320	Ceramic 0.047μF
C739	1	1	1	1	1	DD15390300	Ceramic 39pF ±5%
C740	1	1	1	1	1	DD15390300	Ceramic 39pF ±5%

REF. DESIG.	Q'TY U	C	N	A	P	PART NO.	DESCRIPTION
⚠C801	1	1	1	1	1	EA47505030	Elect 4.7μF 50V
⚠C802	1	1	1	1	1	EA47705030	Elect 470μF 50V
⚠C803	1	1	1	1	1	EA47705030	Elect 470μF 50V
⚠C804	1	1	1	1	1	EA10703530	Elect 100μF 35V
⚠C805	1	1	1	1	1	EA10703530	Elect 100μF 35V
⚠C806	1	1	1	1	1	EA10702530	Elect 100μF 25V
⚠C807	1	1	1	1	1	EA10702530	Elect 100μF 25V
C808	1	1	1	1	1	EA10701630	Elect 100μF 16V
C809	1	1	1	1	1	EA10701630	Elect 100μF 16V
⚠C810	1	1	1	1	1	EA47601630	Elect 47μF 16V
⚠C811	1	1	1	1	1	EA47601630	Elect 47μF 16V
⚠C812	1	1	1	1	1	DK18103560	Ceramic 0.01μF
⚠C813	1	1	1	1	1	DK18103560	Ceramic 0.01μF
⚠C814	1	1	1	1	1	DK18103560	Ceramic 0.01μF
C815	1	1	1	1	1	EA47601030	Elect 47μF 10V
⚠C816	1	1	1	1	1	EB68805520	Elect 6800μF 55V
⚠C817	1	1	1	1	1	EB68805520	Elect 6800μF 55V
C818	1	1	1	1	1	DF17103300	Film 0.01μF ±20%
C819	1	1	1	1	1	DF17103300	Film 0.01μF ±20%
CE01	1	1	1	1	1	EA10505030	Elect 1μF 50V
CE02	1	1	1	1	1	EA10505030	Elect 1μF 50V
CE03	1	1	1	1	1	DK16181300	Ceramic 180pF ±10%
CE04	1	1	1	1	1	DK16181300	Ceramic 180pF ±10%
CE05	1	1	1	1	1	EA10602530	Elect 10μF 25V
CE06	1	1	1	1	1	EA10602530	Elect 10μF 25V
CE07	1	1	1	1	1	EA47505030	Elect 4.7μF 50V
CE08	1	1	1	1	1	EA47505030	Elect 4.7μF 50V
CE09	1	1	1	1	1	EA10701030	Elect 100μF 10V
CE10	1	1	1	1	1	EA10701030	Elect 100μF 10V
CE11	1	1	1	1	1	EA10701030	Elect 100μF 10V
CE12	1	1	1	1	1	EA10701030	Elect 100μF 10V
CE63	1	1	1	1	1	EA10701630	Elect 100μF 16V
CE64	1	1	1	1	1	EA10701630	Elect 100μF 16V
CN01	1	1	1	1	1	EA47601030	Elect 47μF 10V
CN02	1	1	1	1	1	EA33701630	Elect 330μF 16V
CT01	1	1	1	1	1	DK16221300	Ceramic 220pF ±10%
CT02	1	1	1	1	1	DK16221300	Ceramic 220pF ±10%
CT03	1	1	1	1	1	DF16683300	Film 0.068μF ±10%
CT04	1	1	1	1	1	DF16683300	Film 0.068μF ±10%
CT05	1	1	1	1	1	DF15822300	Film 8200pF ±5%
CT06	1	1	1	1	1	DF15822300	Film 8200pF ±5%
CT07	1	1	1	1	1	EA10505030	Elect 1μF 50V
CT08	1	1	1	1	1	EA10505030	Elect 1μF 50V
							P700-RESISTORS
							(All Resistors are ±5% & ¼W)
R701	1	1	1	1	1	GD05471140	470Ω
R702	1	1	1	1	1	GD05471140	470Ω
R703	1	1	1	1	1	GD05822140	8.2KΩ
R704	1	1	1	1	1	GD05822140	8.2KΩ
R705	1	1	1	1	1	GG05391140	390Ω
R706	1	1	1	1	1	GG05391140	390Ω
R707	1	1	1	1	1	GG05331140	330Ω
R708	1	1	1	1	1	GG05331140	330Ω
R709	1	1	1	1	1	GD05821140	820Ω
R710	1	1	1	1	1	GD05821140	820Ω

REF. DESIG.	Q'TY U	C	N	A	P	PART NO.	DESCRIPTION
R711	1	1	1	1	1	GD05272140	2.7KΩ
R712	1	1	1	1	1	GD05272140	2.7KΩ
R713	1	1	1	1	1	GD05271140	270Ω
R714	1	1	1	1	1	GD05271140	270Ω
R715	1	1	1	1	1	GD05123140	12KΩ
R716	1	1	1	1	1	GD05123140	12KΩ
R717	1	1	1	1	1	GG05682140	6.8KΩ
R718	1	1	1	1	1	GG05682140	6.8KΩ
R719	1	1	1	1	1	GG05331140	330Ω
R720	1	1	1	1	1	GG05331140	330Ω
R723	1	1	1	1	1	GD05473140	47KΩ
R724	1	1	1	1	1	GD05473140	47KΩ
R725	1	1	1	1	1	GG05100140	10Ω
R726	1	1	1	1	1	GG05100140	10Ω
R727	1	1	1	1	1	GD05333140	33KΩ
R728	1	1	1	1	1	GD05333140	33KΩ
R729	1	1	1	1	1	GD05122140	1.2KΩ
R730	1	1	1	1	1	GD05122140	1.2KΩ
R731	1	1	1	1	1	GG05333140	330Ω
R732	1	1	1	1	1	GG05331140	330Ω
R733	1	1	1	1	1	GD05102140	1KΩ
⚠R734	1	1	1	1	1	GD05102140	1KΩ
R735	1	1	1	1	1	GD05471140	470Ω
R736	1	1	1	1	1	GD05471140	470Ω
R737	1	1	1	1	1	RA01020110	1KΩ, Trimming
R738	1	1	1	1	1	RA01020110	1KΩ, Trimming
⚠R739	1	1	1	1	1	RF05121140	120Ω, Fusible
⚠R740	1	1	1	1	1	RF05121140	120Ω, Fusible
⚠R741	1	1	1	1	1	RF05121140	120Ω, Fusible
⚠R742	1	1	1	1	1	RF05121140	120Ω, Fusible
⚠R743	1	1	1	1	1	RF05100120	10Ω, ½W Fusible
⚠R744	1	1	1	1	1	RF05100120	10Ω, ½W Fusible
⚠R745	1	1	1	1	1	RF05100120	10Ω, ½W Fusible
⚠R746	1	1	1	1	1	RF05100120	10Ω, ½W Fusible
R747	1	1	1	1	1	GG05271120	270Ω, ½W
R748	1	1	1	1	1	GG05271120	270Ω, ½W
⚠R749	1	1	1	1	1	BW10000010	0.33Ω, 3W x 2 Compo.
⚠R750	1	1	1	1	1	BW10000010	0.33Ω, 3W x 2 Compo.
R753	1	1	1	1	1	GD05151140	150Ω
R754	1	1	1	1	1	GD05151140	150Ω
R755	1	1	1	1	1	GD05151140	150Ω
R756	1	1	1	1	1	GD05151140	150Ω
R757	1	1	1	1	1	GD05472140	4.7KΩ
R758	1	1	1	1	1	GD05472140	4.7KΩ
R759	1	1	1	1	1	GD05472140	4.7KΩ
R760	1	1	1	1	1	GD05472140	4.7KΩ
R761	1	1	1	1	1	GD05153140	15KΩ
R762	1	1	1	1	1	GD05153140	15KΩ
R763	1	1	1	1	1	RC10022120	2.2Ω ±10% ½W
R764	1	1	1	1	1	RC10022120	2.2Ω ±10% ½W
R765	1	1	1	1	1	GA05100020	10Ω 2W
R766	1	1	1	1	1	GA05100020	10Ω 2W
R767	1	1	1	1	1	GD05101140	100Ω
R768	1	1	1	1	1	GD05101140	100Ω
R769	1	1	1	1	1	GD05101140	100Ω
R770	1	1	1	1	1	GD05101140	100Ω
R771	1	1	1	1	1	GG05101140	100Ω
R772	1	1	1	1	1	GG05101140	100Ω
R773	1	1	1	1	1	GG05101140	100Ω
R774	1	1	1	1	1	GG05101140	100Ω

REF. DESIG.	Q'TY U	C	N	A	P	PART NO.	DESCRIPTION
R775	1	1	1	1	1	GD05224140	220KΩ
R776	1	1	1	1	1	GD05224140	220KΩ
R777	1	1	1	1	1	GD05224140	220KΩ
R778	1	1	1	1	1	GD05224140	220KΩ
R779	1	1	1	1	1	GD05683140	68KΩ
R780	1	1	1	1	1	GD05683140	68KΩ
R781	1	1	1	1	1	GD05563140	56KΩ
R782	1	1	1	1	1	GD05563140	56KΩ
R789	1	1	1	1	1	GD05103140	10KΩ
R790	1	1	1	1	1	GD05103140	10KΩ
R791	1	1	1	1	1	GD05681140	680Ω
R792	1	1	1	1	1	GD05681140	680Ω
R801	1	1	1	1	1	GD05123140	12KΩ
R802	1	1	1	1	1	GD05123140	12KΩ
R803	1	1	1	1	1	GD05472140	4.7KΩ
R804	1	1	1	1	1	GD05472140	4.7KΩ
R805	1	1	1	1	1	GA05750010	75Ω 1W
R806	1	1	1	1	1	GA05101010	100Ω 1W
R807	1	1	1	1	1	GD05562140	5.6KΩ
R808	1	1	1	1	1	GG05102140	1KΩ
R809	1	1	1	1	1	GD05223140	22KΩ
R810	1	1	1	1	1	GD05332140	3.3KΩ
R811	1	1	1	1	1	GD05682140	6.8KΩ
R812	1	1	1	1	1	GD05182140	1.8KΩ
R813	1	1	1	1	1	GD05183140	18KΩ
R814	1	1	1	1	1	GD05472140	4.7KΩ
⚠R815	1	1	1	1	1	GD05102140	1KΩ
⚠R816	1	1	1	1	1	GG05183120	18KΩ ½W
⚠R817	1	1	1	1	1	GG05183120	18KΩ ½W
⚠R818	1	1	1	1	1	RF05120120	12Ω ½W Fusible
⚠R819	1	1	1	1	1	RF05120120	12Ω ½W Fusible
RE01	1	1	1	1	1	GD05221140	220Ω
RE02	1	1	1	1	1	GD05221140	220Ω
RE03	1	1	1	1	1	GD05823140	82KΩ
RE04	1	1	1	1	1	GD05823140	82KΩ
RE05	1	1	1	1	1	GD05102140	1KΩ
RE06	1	1	1	1	1	GD05102140	1KΩ
RE07	1	1	1	1	1	GD05392140	3.9KΩ
RE08	1	1	1	1	1	GD05392140	3.9KΩ
RE09	1	1	1	1	1	GD05104140	100KΩ
RE10	1	1	1	1	1	GD05104140	100KΩ
RE11	1	1	1	1	1	GD05391140	390Ω
RE12	1	1	1	1	1	GD05391140	390Ω
RE13	1	1	1	1	1	GD05223140	22KΩ
RE14	1	1	1	1	1	GD05223140	22KΩ
RE15	1	1	1	1	1	GD05221140	220Ω
RE16	1	1	1	1	1	GD05221140	220Ω
RE17	1	1	1	1	1	GD05392140	3.9KΩ
RE18	1	1	1	1	1	GD05392140	3.9KΩ
RE19	1	1	1	1	1	GD05392140	3.9KΩ
RE20	1	1	1	1	1	GD05392140	3.9KΩ
RN01	1	1	1	1	1	GG05562120	5.6KΩ ½W
RN02	1	1	1	1	1	GG05562120	5.6KΩ ½W
RN03	1	1	1	1	1	GD05223140	22KΩ
RN04	1	1	1	1	1	GD05153140	15KΩ
RN05	1	1	1	1	1	GD05562140	5.6KΩ
RN06	1	1	1	1	1	GD05154140	150KΩ
RN07	1	1	1	1	1	GD05393140	39KΩ
RN08	1	1	1	1	1	GG05100140	10Ω
RN09	1	1	1	1	1	GD05333140	33KΩ
RS01	1	1	1	1	1	GA05331010	330Ω 1W
RS02	1	1	1	1	1	GA05331010	330Ω 1W

REF. DESIG.	Q'TY U	C	N	A	P	PART NO.	DESCRIPTION
RT01	1	1	1	1	1	GD05272140	2.7KΩ
RT02	1	1	1	1	1	GD05272140	2.7KΩ
RT03	1	1	1	1	1	GD05273140	27KΩ
RT04	1	1	1	1	1	GD05273140	27KΩ
RT05	1	1	1	1	1	GD05822140	8.2KΩ
RT06	1	1	1	1	1	GD05822140	8.2KΩ
RT07	1	1	1	1	1	GD05182140	1.8KΩ
RT08	1	1	1	1	1	GD05182140	1.8KΩ
RT09	1	1	1	1	1	GD05224140	220KΩ
RT10	1	1	1	1	1	GD05224140	220KΩ
RT11	1	1	1	1	1	GD05274140	270KΩ
RT12	1	1	1	1	1	GD05274140	270KΩ
							P700-SEMICONDUCTORS
Q701	1	1	1	1	1	HT314001E0	Transistor 2SC1400(E)
Q702	1	1	1	1	1	HT314001E0	Transistor 2SC1400(E)
Q703	1	1	1	1	1	HT314001E0	Transistor 2SC1400(E)
Q704	1	1	1	1	1	HT314001E0	Transistor 2SC1400(E)
Q705	1	1	1	1	1	HT107501B0	Transistor 2SA750(E)
Q706	1	1	1	1	1	HT107501B0	Transistor 2SA750(E)
Q707	1	1	1	1	1	HT107501B0	Transistor 2SA750(E)
Q708	1	1	1	1	1	HT107501B0	Transistor 2SA750(E)
Q709	1	1	1	1	1	HT314001E0	Transistor 2SC1400(E)
Q710	1	1	1	1	1	HT314001E0	Transistor 2SC1400(E)
Q711	1	1	1	1	1	HT109701B0	Transistor 2SA970(BL)
Q712	1	1	1	1	1	HT109701B0	Transistor 2SA970(BL)
Q713	1	1	1	1	1	HT109701B0	Transistor 2SA970(BL)
Q714	1	1	1	1	1	HT109701B0	Transistor 2SA970(BL)
Q715	1	1	1	1	1	HT322292A0	Transistor 2SC2229(O or Y)
Q716	1	1	1	1	1	HT322292A0	Transistor 2SC2229(O or Y)
Q717	1	1	1	1	1	HT314001E0	Transistor 2SC1400(E)
Q718	1	1	1	1	1	HT314001E0	Transistor 2SC1400(E)
⚠Q719	1	1	1	1	1	HT328242A0	Transistor 2SC2824(O or Y)
⚠Q720	1	1	1	1	1	HT328242A0	Transistor 2SC2824(O or Y)
⚠Q721	1	1	1	1	1	HT111842A0	Transistor 2SA1184(O or Y)
Q722	1	1	1	1	1	HT111842A0	Transistor 2SA1184(O or Y)
⚠Q723	1	1	1	1	1	HT326812A0	Transistor 2SC2681(Q or R)
⚠Q724	1	1	1	1	1	HT326812A0	Transistor 2SC2681(Q or R)
⚠Q725	1	1	1	1	1	HT111412A0	Transistor 2SA1141(Q or R)
Q726	1	1	1	1	1	HT111412A0	Transistor 2SA1141(Q or R)
Q727	1	1	1	1	1	HT309451P0	Transistor 2SC945(P)
Q728	1	1	1	1	1	HT309451P0	Transistor 2SC945(P)
Q729	1	1	1	1	1	HT107331P0	Transistor 2SA733(P)
Q730	1	1	1	1	1	HT107331P0	Transistor 2SA733(P)
Q731	1	1	1	1	1	HD20001210	Diode 1S2473C
Q732	1	1	1	1	1	HD20001210	Diode 1S2473C
Q733	1	1	1	1	1	HD20008210	Diode 1S2471F
Q734	1	1	1	1	1	HD20008210	Diode 1S2471F
Q735	1	1	1	1	1	HD20008210	Diode 1S2471F
Q736	1	1	1	1	1	HD20008210	Diode 1S2471F
Q737	1	1	1	1	1	HD20002210	Diode 1S2472
Q738	1	1	1	1	1	HD20002210	Diode 1S2472
Q739	1	1	1	1	1	HD20002210	Diode 1S2472
Q740	1	1	1	1	1	HD20002210	Diode 1S2472
Q741	1	1	1	1	1	HD20005010	Diode W06B
Q742	1	1	1	1	1	HD20005010	Diode W06B
Q743	1	1	1	1	1	HD20005010	Diode W06B
Q744	1	1	1	1	1	HD20005010	Diode W06B
Q745	1	1	1	1	1	HD20008210	Diode 1S2471
Q746	1	1	1	1	1	HD20008210	Diode 1S2471
Q747	1	1	1	1	1	HC10003090	IC 4558D
Q752	1	1	1	1	1	HV00010120	Varistor MV-11Y
Q753	1	1	1	1	1	HV00010120	Varistor MV-11Y

REF. DESIG.	Q'TY U	C	N	A	P	PART NO.	DESCRIPTION
⚠Q801	1	1	1	1	1	HD20011290	Diode S3V-20
⚠Q802	1	1	1	1	1	HD20011290	Diode S3V-20
⚠Q803	1	1	1	1	1	HD20011290	Diode S3V-20
⚠Q804	1	1	1	1	1	HD20011290	Diode S3V-20
⚠Q805	1	1	1	1	1	HD20015030	Diode DS-135
⚠Q806	1	1	1	1	1	HD20015030	Diode DS-135
⚠Q807	1	1	1	1	1	HD20015030	Diode DS-135
⚠Q808	1	1	1	1	1	HD20015030	Diode DS-135
⚠Q809	1	1	1	1	1	HD20015030	Diode DS-135
⚠Q810	1	1	1	1	1	HD20015030	Diode DS-135
⚠Q811	1	1	1	1	1	HT405712B0	Transistor 2SD571(L or K)
⚠Q812	1	1	1	1	1	HT206052B0	Transistor 2SB605(L or K)
Q813	1	1	1	1	1	HT309451P0	Transistor 2SC945(P)
Q814	1	1	1	1	1	HT107331P0	Transistor 2SA733(P)
Q815	1	1	1	1	1	HT403132A0	Transistor 2SD313(E or D)
Q816	1	1	1	1	1	HT205072A0	Transistor 2SB507(E or D)
Q817	1	1	1	1	1	HD20008210	Diode 1S2471
Q818	1	1	1	1	1	HD30014010	Diode HZ16-A2L
QE01	1	1	1	1	1	HC10003090	IC 4558D
QE02	1	1	1	1	1	HC10003090	IC 4558D
QN01	1	1	1	1	1	HT309451P0	Transistor 2SC945(P)
QN02	1	1	1	1	1	HT411111A0	Transistor 2SD1111
QN03	1	1	1	1	1	HD20002210	Diode 1S2472
QN04	1	1	1	1	1	HD20002210	Diode 1S2472
							P700-MISCELLANEOUS
L701	1	1	1	1	1	LL23905120	Choke Coil
L702	1	1	1	1	1	LL23905120	Choke Coil
⚠L801	1	1	1	1	1	LY20240190	Relay, DC24V
SS01	1	1	1	1	1	SP02020520	Push Switch, Speaker
ST01	1	1	1	1	1	SP02070010	Push Switch, Speaker
⚠F801		1				FS10100500	Fuse 1A 250V
⚠F801			1			FS10063800	Fuse 0.68A 250V
⚠F801				1		FS10100900	Fuse 1A 250V
⚠F801					1	FS10100600	Fuse 1A 250V
⚠F802		1				FS10100500	Fuse 1A 250V
⚠F802			1			FS10063800	Fuse 0.68A 250V
⚠F802				1		FS10100900	Fuse 1A 250V
⚠F802					1	FS10100600	Fuse 1A 250V
⚠F803		1				FS10050500	Fuse 0.5A 250V
⚠F803			1		1	FS10050800	Fuse 0.5A 250V
⚠F803				1		FS10050900	Fuse 0.5A 250V
J801 ~ J806			6	6		YJ08000270	Jack, Fuse Clip
J801 ~ J806		6			6	YJ08000170	Jack, Fuse Clip
WF01	1	1	1	1	1	YU07080260	Jumper Lead
							PE00-GRAPHIC VOLUME CIRCUIT BOARD
PE00	1	1	1	1	1	YK211H2310	P.W. Board, Graphic Volume
	1	1	1	1	1	ZZ211H2310	P.W. Board Assembly
							PE00-RESISTORS
RF01	1	1	1	1	1	RS05030360	50KΩ(W) x 2 Variable
RF02	1	1	1	1	1	RS05030360	50KΩ(W) x 2 Variable
RF03	1	1	1	1	1	RS05030360	50KΩ(W) x 2 Variable
RF04	1	1	1	1	1	RS05030360	50KΩ(W) x 2 Variable
RF05	1	1	1	1	1	RS05030360	50KΩ(W) x 2 Variable

REF. DESIG.	Q'TY U	C	N	A	P	PART NO.	DESCRIPTION
							PE01-GRAPHIC CONNECTION CIRCUIT BOARD
PE01	1	1	1	1	1	YK211H2320	P.W. Board, Graphic Connection
							PE02-GRAPHIC TRANSISTOR CIRCUIT BOARD
PE02	1	1	1	1	1	YK211H2330	P.W. Board, Graphic Transistor
	1	1	1	1	1	ZZ211H2330	P.W. Board Assembly
							PE02-CAPACITORS
CE31	1	1	1	1	1	EA22505030	Elect 2.2μF 50V
CE32	1	1	1	1	1	EA22505030	Elect 2.2μF 50V
CE33	1	1	1	1	1	EA47405030	Elect 0.47μF 50V
CE34	1	1	1	1	1	EA47405030	Elect 0.47μF 50V
CE35	1	1	1	1	1	DF17154300	Film 0.15μF ±20%
CE36	1	1	1	1	1	DF17154300	Film 0.15μF ±20%
CE37	1	1	1	1	1	DF17333300	Film 0.033μF ±20%
CE38	1	1	1	1	1	DF17333300	Film 0.033μF ±20%
CE39	1	1	1	1	1	DF17822300	Film 8200pF ±20%
CE40	1	1	1	1	1	DF17822300	Film 8200pF ±20%
CE41	1	1	1	1	1	EA10405030	Elect 0.1μF 50V
CE42	1	1	1	1	1	EA10405030	Elect 0.1μF 50V
CE43	1	1	1	1	1	DF17223300	Film 0.022μF ±20%
CE44	1	1	1	1	1	DF17223300	Film 0.022μF ±20%
CE45	1	1	1	1	1	DF17562300	Film 5600pF ±20%
CE46	1	1	1	1	1	DF17562300	Film 5600pF ±20%
CE47	1	1	1	1	1	DF17152300	Film 1500pF ±20%
CE48	1	1	1	1	1	DF17152300	Film 1500pF ±20%
CE49	1	1	1	1	1	DK16391300	Ceramic 390pF ±10%
CE50	1	1	1	1	1	DK16391300	Ceramic 390pF ±10%
							PE02-RESISTORS (All Resistors are ±5% & ¼W)
RE31	1	1	1	1	1	GD05101140	100Ω
RE32	1	1	1	1	1	GD05101140	100Ω
RE33	1	1	1	1	1	GD05101140	100Ω
RE34	1	1	1	1	1	GD05101140	100Ω
RE35	1	1	1	1	1	GD05101140	100Ω
RE36	1	1	1	1	1	GD05101140	100Ω
RE37	1	1	1	1	1	GD05101140	100Ω
RE38	1	1	1	1	1	GD05101140	100Ω
RE39	1	1	1	1	1	GD05101140	100Ω
RE40	1	1	1	1	1	GD05101140	100Ω
RE41	1	1	1	1	1	GD05473140	47KΩ
RE42	1	1	1	1	1	GD05473140	47KΩ
RE43	1	1	1	1	1	GD05473140	47KΩ
RE44	1	1	1	1	1	GD05473140	47KΩ
RE45	1	1	1	1	1	GD05473140	47KΩ
RE46	1	1	1	1	1	GD05473140	47KΩ
RE47	1	1	1	1	1	GD05473140	47KΩ
RE48	1	1	1	1	1	GD05473140	47KΩ
RE49	1	1	1	1	1	GD05473140	47KΩ
RE50	1	1	1	1	1	GD05473140	47KΩ
RE51	1	1	1	1	1	GD05472140	4.7KΩ
RE52	1	1	1	1	1	GD05472140	4.7KΩ
RE53	1	1	1	1	1	GD05472140	4.7KΩ
RE54	1	1	1	1	1	GD05472140	4.7KΩ
RE55	1	1	1	1	1	GD05472140	4.7KΩ
RE56	1	1	1	1	1	GD05472140	4.7KΩ
RE57	1	1	1	1	1	GD05472140	4.7KΩ
RE58	1	1	1	1	1	GD05472140	4.7KΩ
RE59	1	1	1	1	1	GD05472140	4.7KΩ
RE60	1	1	1	1	1	GD05472140	4.7KΩ

REF. DESIG.	Q'TY U	C	N	A	P	PART NO.	DESCRIPTION
RE61	1	1	1	1	1	GD05102140	1KΩ
RE62	1	1	1	1	1	GD05102140	1KΩ
RE63	1	1	1	1	1	GD05102140	1KΩ
RE64	1	1	1	1	1	GD05102140	1KΩ
RE65	1	1	1	1	1	GD05102140	1KΩ
RE66	1	1	1	1	1	GD05102140	1KΩ
RE67	1	1	1	1	1	GD05102140	1KΩ
RE68	1	1	1	1	1	GD05102140	1KΩ
RE69	1	1	1	1	1	GD05102140	1KΩ
RE70	1	1	1	1	1	GD05102140	1KΩ
							PE02-SEMICONDUCTORS
QE03	1	1	1	1	1	HT314002A0	Transistor 2SC1400(E or V)
QE04	1	1	1	1	1	HT314002A0	Transistor 2SC1400(E or V)
QE05	1	1	1	1	1	HT314002A0	Transistor 2SC1400(E or V)
QE06	1	1	1	1	1	HT314002A0	Transistor 2SC1400(E or V)
QE07	1	1	1	1	1	HT314002A0	Transistor 2SC1400(E or V)
QE08	1	1	1	1	1	HT314002A0	Transistor 2SC1400(E or V)
QE09	1	1	1	1	1	HT314002A0	Transistor 2SC1400(E or V)
QE10	1	1	1	1	1	HT314002A0	Transistor 2SC1400(E or V)
QE11	1	1	1	1	1	HT314002A0	Transistor 2SC1400(E or V)
QE12	1	1	1	1	1	HT314002A0	Transistor 2SC1400(E or V)
							PG00-VOLUME CIRCUIT BOARD
PG00	1	1	1	1	1	YK211H3640	P.W. Board, Volume
	1	1	1	1	1	ZZ211H3640	P.W. Board Assembly
							PG00-RESISTORS
RG01	1	1	1	1	1	RM01040270	Variable, Volume
RG02	1	1	1	1	1	RK02040080	Variable, Balance
WG01	1	1	1	1	1	YU05260260	Jumper Lead
							PO00-POWER SWITCH CIRCUIT BOARD
PO00	1	1	1	1	1	YK211H3630	P.W. Board, Power Switch
	1	1				ZZ211H3630	P.W. Board Assembly
			1	1		ZZ211H8630	P.W. Board Assembly
					1	ZZ211H7630	P.W. Board Assembly
G001	1	1				DK18103530	Ceramic Cap. 0.1μF 125V
G001			1	1		DK18103840	Ceramic Cap. 0.1μF 400V
G001					1	DK18103850	Ceramic Cap. 0.1μF 250V
S001	1					SP01010420	Push Switch, Power
S001		1				SP01010240	Push Switch, Power
S001			1	1		SP01010390	Push Switch, Power
S001					1	SP01010430	Push Switch, Power
							PV01-TAPE IN/OUT CIRCUIT BOARD
PV01	1	1	1	1	1	YK211H1220	P.W. Board, Tape In/Out
	1	1	1	1	1	ZZ211H1220	P.W. Board Assembly
JV01	1	1	1	1	1	YT02040260	Terminal, Tape 1
JV02	1	1	1	1	1	YT02040260	Terminal, Tape 2

REF. DESIG.	Q'TY U	C	N	A	P	PART NO.	DESCRIPTION
							PW01-HEAD PHONE CIRCUIT BOARD
PW01	1	1	1	1	1	YK211H3620	P.W. Board, Head Phone
	1	1	1	1	1	ZZ211H3620	P.W. Board Assembly
JW01	1	1	1	1	1	YJ01001400	Jack, Head Phone
WW01	1	1	1	1	1	YU03240260	Jumper Lead
							PW02-EQ OUT CIRCUIT BOARD
PW02	1	1	1	1	1	YK211H3660	P.W. Board, EQ Out
	1	1	1	1	1	ZZ211H3660	P.W. Board Assembly
JW02	1	1	1	1	1	YJ01001400	Jack, EQ Out
							PX01-LED LEVEL METER DRIVE CIRCUIT BOARD
PX01	1	1	1	1	1	WN207H3210	P.W. Board, LED Level Meter Drive
	1	1	1	1	1	ZZ207H3210	P.W. Board Assembly
							PX01-CAPACITORS
CX01	1	1	1	1	1	EA33505030	Elect 3.3μF 50V
CX02	1	1	1	1	1	EA33505030	Elect 3.3μF 50V
CX03	1	1	1	1	1	EA10505030	Elect 1μF 50V
CX04	1	1	1	1	1	EA10505030	Elect 1μF 50V
CX05	1	1	1	1	1	DK18103320	Ceramic 0.01μF
CX06	1	1	1	1	1	DK18103320	Ceramic 0.01μF
							PX01-RESISTORS (All Resistors are ±5% & ¼W)
RX01	1	1	1	1	1	GD05103140	10KΩ
RX02	1	1	1	1	1	GD05103140	10KΩ
RX03	1	1	1	1	1	GD05104140	100KΩ
RX04	1	1	1	1	1	GD05104140	100KΩ
RX07	1	1	1	1	1	RA02030060	20KΩ, Trimming
RX08	1	1	1	1	1	RA02030060	20KΩ, Trimming
RX25	1	1	1	1	1	GD05563140	56KΩ
RX26	1	1	1	1	1	GD05563140	56KΩ
RX27	1	1	1	1	1	GD05333140	33KΩ
RX28	1	1	1	1	1	GD05333140	33KΩ
							PX01-SEMICONDUCTORS
QX01	1	1	1	1	1	HD30076090	Zener WZ038
QX02	1	1	1	1	1	HD30076090	Zener WZ038
QX03	1	1	1	1	1	HD20001210	Diode 1S2473
QX04	1	1	1	1	1	HD20001210	Diode 1S2473
QX05	1	1	1	1	1	HC10008370	IC TL489C
QX06	1	1	1	1	1	HC10008370	IC TL489C
QX07	1	1	1	1	1	HC10019020	IC AN6552
QX21	1	1	1	1	1	HD20001210	Diode 1S2473
QX22	1	1	1	1	1	HD20001210	Diode 1S2473
							PX01-MISCELLANEOUS
JX01	1	1	1	1	1	YJ07000750	Jack (4P)
JX02	1	1	1	1	1	YJ07000760	Jack (2P)
WX01	1	1	1	1	1	YU04140260	Jumper Lead
WX02	1	1	1	1	1	YU02180260	Jumper Lead

REF. DESIG.	Q'TY U	C	N	A	P	PART NO.	DESCRIPTION
							PX02-LED LEVEL METER CIRCUIT BOARD
PX02	1	1	1	1	1	WN207H3220	P.W. Board, LED Level Meter
	1	1	1	1	1	ZZ207H3220	P.W. Board Assembly
							PX02-RESISTORS (All Resistors are ±5% & ¼W)
RX10	1	1	1	1	1	GD05181140	180Ω
RX11	1	1	1	1	1	GD05561140	560Ω
RX12	1	1	1	1	1	GD05561140	560Ω
RX13	1	1	1	1	1	GD05561140	560Ω
RX14	1	1	1	1	1	GD05561140	560Ω
RX15	1	1	1	1	1	GD05561140	560Ω
RX16	1	1	1	1	1	GD05561140	560Ω
RX17	1	1	1	1	1	GD05561140	560Ω
RX18	1	1	1	1	1	GD05561140	560Ω
RX19	1	1	1	1	1	GD05561140	560Ω
RX20	1	1	1	1	1	GD05561140	560Ω
							PX02-SEMICONDUCTORS
QX08	1	1	1	1	1	HI10006320	L.E.D. GL-9NG9, Green
QX09	1	1	1	1	1	HI10007320	L.E.D. GL-9PR9, Red
QX10	1	1	1	1	1	HI10007320	L.E.D. GL-9PR9, Red
QX11	1	1	1	1	1	HI10007320	L.E.D. GL-9PR9, Red
QX12	1	1	1	1	1	HI10007320	L.E.D. GL-9PR9, Red
QX13	1	1	1	1	1	HI10007320	L.E.D. GL-9PR9, Red
QX14	1	1	1	1	1	HI10007320	L.E.D. GL-9PR9, Red
QX15	1	1	1	1	1	HI10007320	L.E.D. GL-9PR9, Red
QX16	1	1	1	1	1	HI10007320	L.E.D. GL-9PR9, Red
QX17	1	1	1	1	1	HI10007320	L.E.D. GL-9PR9, Red
QX18	1	1	1	1	1	HI10007320	L.E.D. GL-9PR9, Red

REF. DESIG.	Q'TY U	C	N	A	P	PART NO.	DESCRIPTION

(W01-99)	Assembly and Wiring
(T01-99)	Adjustment
(X01-00)	Correction

7. TECHNICAL SPECIFICATIONS

AUDIO SECTION

POWER OUTPUT, DIN, 4 OHM, PER CHANNEL **91W**
POWER OUTPUT, RMS 1 kHz, 4 OHM, PER CHANNEL **90W**
POWER OUTPUT, DIN, 8 OHM, PER CHANNEL **70W**
POWER OUTPUT, RMS 1 kHz, 8 OHM, PER CHANNEL **65W**
TOTAL HARMONIC DISTORTION AT RATED POWER OUTPUT **0.03%**
I.M. DISTORTION AT RATED POWER OUTPUT
(250 Hz AND 8 kHz MIXED, AMPLITUDE RATIO 4:1) **0.03%**
DAMPING FACTOR 8 OHM **80**

Frequency Response
Phono (RIAA) ..... ±0.3 dB
Aux (±1 dB) ..... 10 Hz ~ 50 kHz
Signal-to-Noise Ratio (IHF-A Network)
Phono (MM) ..... 82 dB
Aux ..... 95 dB
Input Terminals
Phono (MM): Input Impedance ..... 47 kohms
Input Capacitance ..... 220 pF
Input Sensitivity ..... 2.8 dB
(MC): Input Sensitivity ..... 280 μV
Input Impedance ..... 100 ohms
Aux: Input Impedance ..... 28 kohms
Input Sensitivity ..... 150 mV
Phono Equivalent Input Noise ..... 0.58 μV
Phono Dynamic Range (Ratio of input overload to equivalent input noise) ..... 110 dB
Output Voltage, 1 kHz
Tape Out ..... 410 mV
Output Impedance, 1 kHz
Tape Out ..... 470 ohms

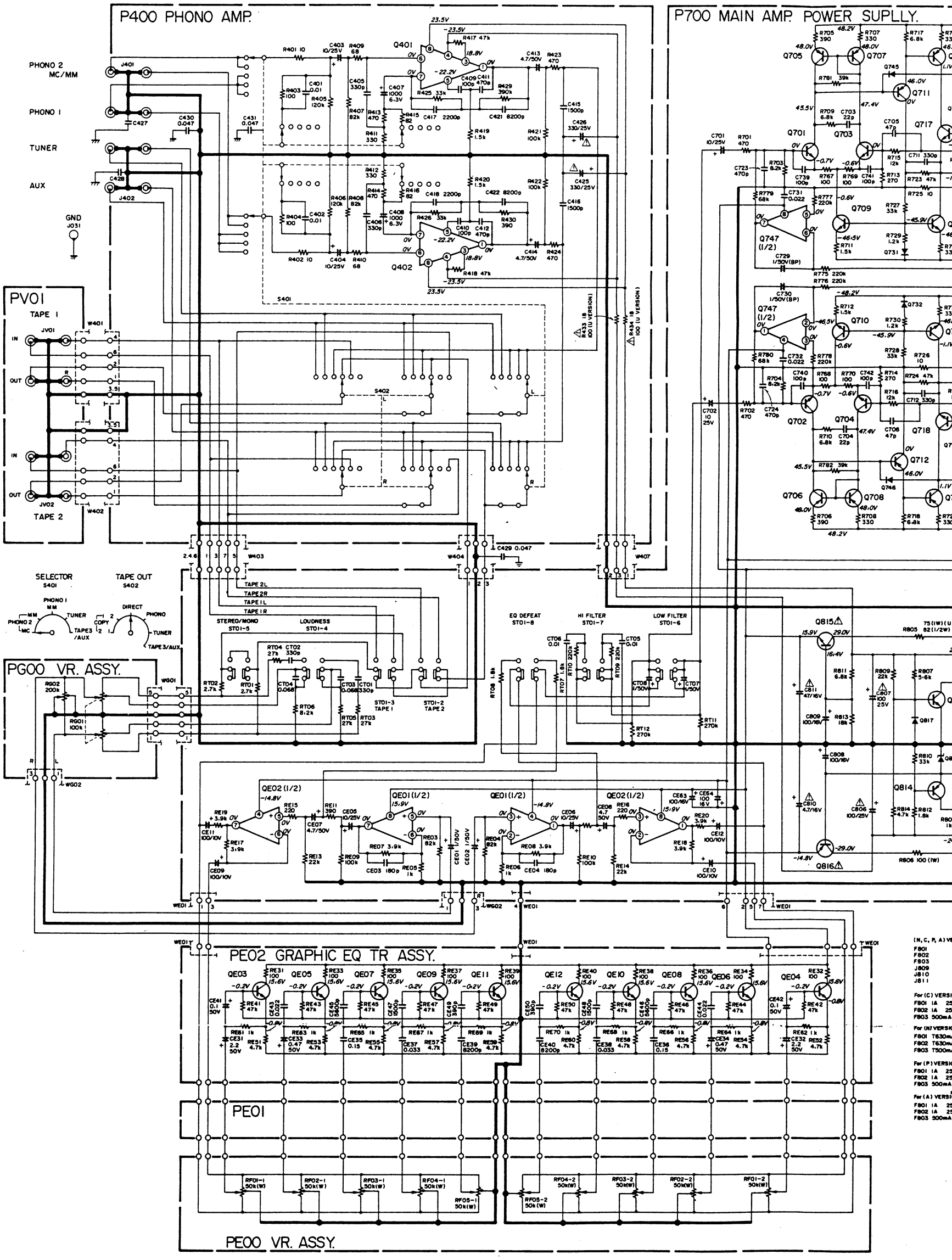
GENERAL

Power Requirements ..... 220V AC, 50 Hz
(E and N versions are featuring external voltage selector.
Other versions can be converted by a qualified technician to operate on 240V.)
Power Consumption at Rated Output, both Channels Driven ..... 230W ± 20W
Idling Power ..... 20W ± 5W
Semiconductor Complement
Transistors 47
Diodes 45
Integrated Circuits 8
Dimensions
Panel Width ..... 416 mm (16-3/8 inches)
Panel Height ..... 117.5 mm (4-5/8 inches)
Depth ..... 329 mm (12-15/16 inches)
Weight
Unit Alone ..... 8 kg

Seite 25 Leer

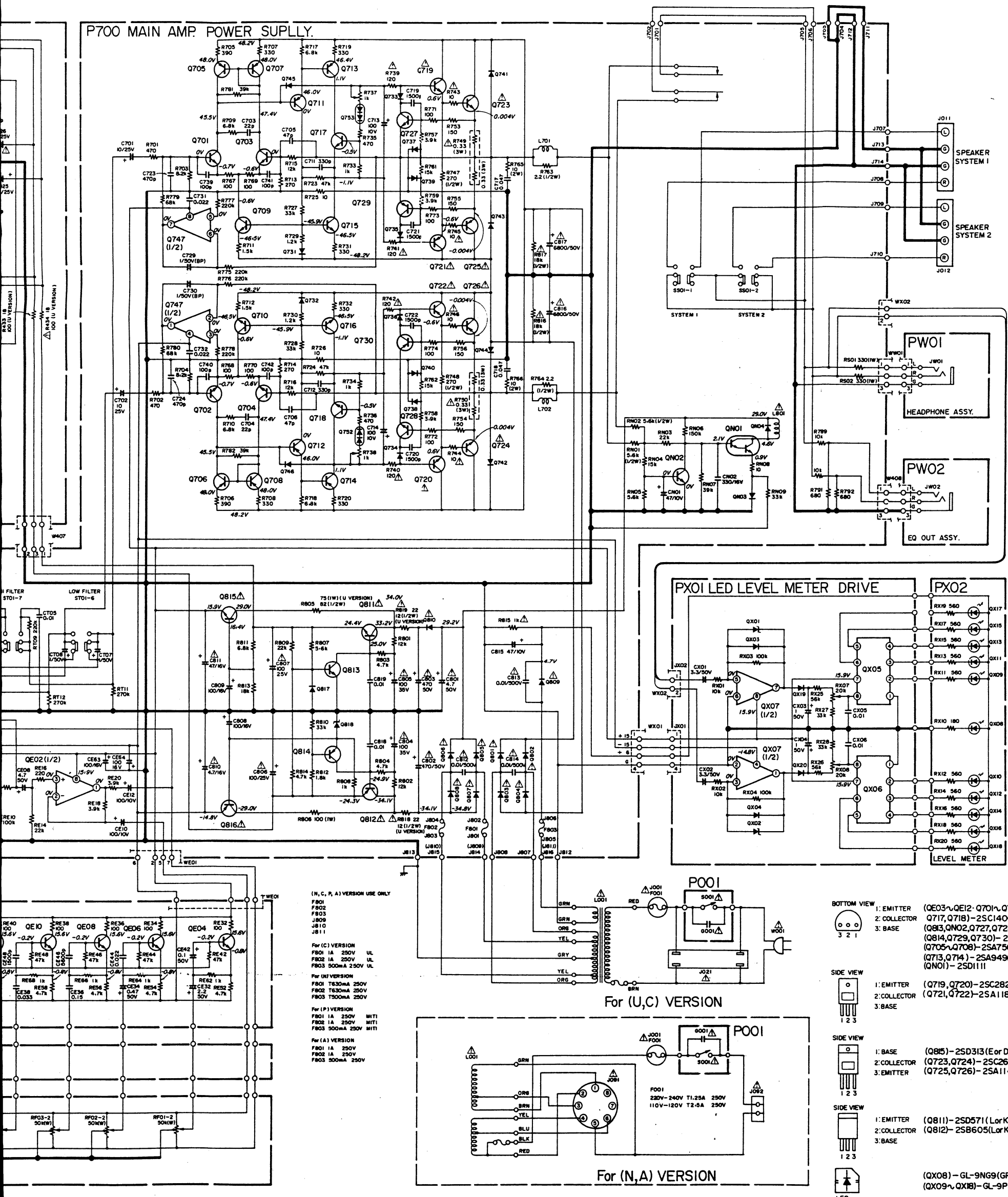
MEMORANDUM

8. SCHEMATIC DIAGRAM



Note on safety: The parts marked with ⚠ are important parts on the safety. Please use the parts having the designated parts number without fail.

Components and wiring are



Q401, Q402	Q8
HC10035010	HD
HAI2017	S3
Q701~Q704	Q8
HT31400IE0	HD
2SC1400(E)	DS
Q705~Q708	Q8
HT10750IB0	HT
2SA750(E)	2S
Q709, Q710	Q8
HT31400IE0	HT
2SC1400(E)	2S
Q711, Q712	Q8
HT10970IB0	HT
2SA970(BL)	2S
Q713, Q714	Q8
HT10949IB0	HT
2SA949(BL)	2S
Q715, Q716	Q8
HT322292A0	HT
2SC2229 (O or Y)	2S
Q717, Q718	Q8
HT31400IE0	HT
2SC1400(E)	2S
Q719, Q720	Q8
HT328242A0	HD
2SC2824(O or Y)	IS2
Q721, Q722	Q8
HTI11842A0	HD
2SA1184(O or Y)	HZ
Q723, Q724	
HT326812A0	
2SC2681(O or R)	
Q725, Q726	QE
HTI11412A0	HC
2SA1141(O or R)	TL
Q727, Q728	QE
HT309451P0	HT
2SC945(P)	2S
Q729, Q730	
HT10733IP0	
2SA733(P)	
Q731~Q736	
HD20001210	
IS2473(C)	
Q737~Q740	
HD20002210	
IS2472	
Q741~Q744	
HD20005010	
W06B	
Q745, Q746	
HD20008210	
IS2471(F)	

BOTTOM VIEW
1: EMITTER (QE03~QE12·Q701~Q704·Q709~Q710
2: COLLECTOR Q717, Q718)-2SC1400(E)
3: BASE (Q813, QN02, Q727, Q728)-2SC945(P)
(Q814, Q729, Q730)-2SA733(P)
(Q705~Q708)-2SA750(E), (Q715, Q716)-2SC2229(O or Y)
(Q713, Q714)-2SA949(BL), (Q711, Q712)-2SA970,
(QN01)-2SD1111

SIDE VIEW
1: EMITTER (Q719, Q720)-2SC2824(O or Y)
2: COLLECTOR (Q721, Q722)-2SA1184(O or Y)
3: BASE

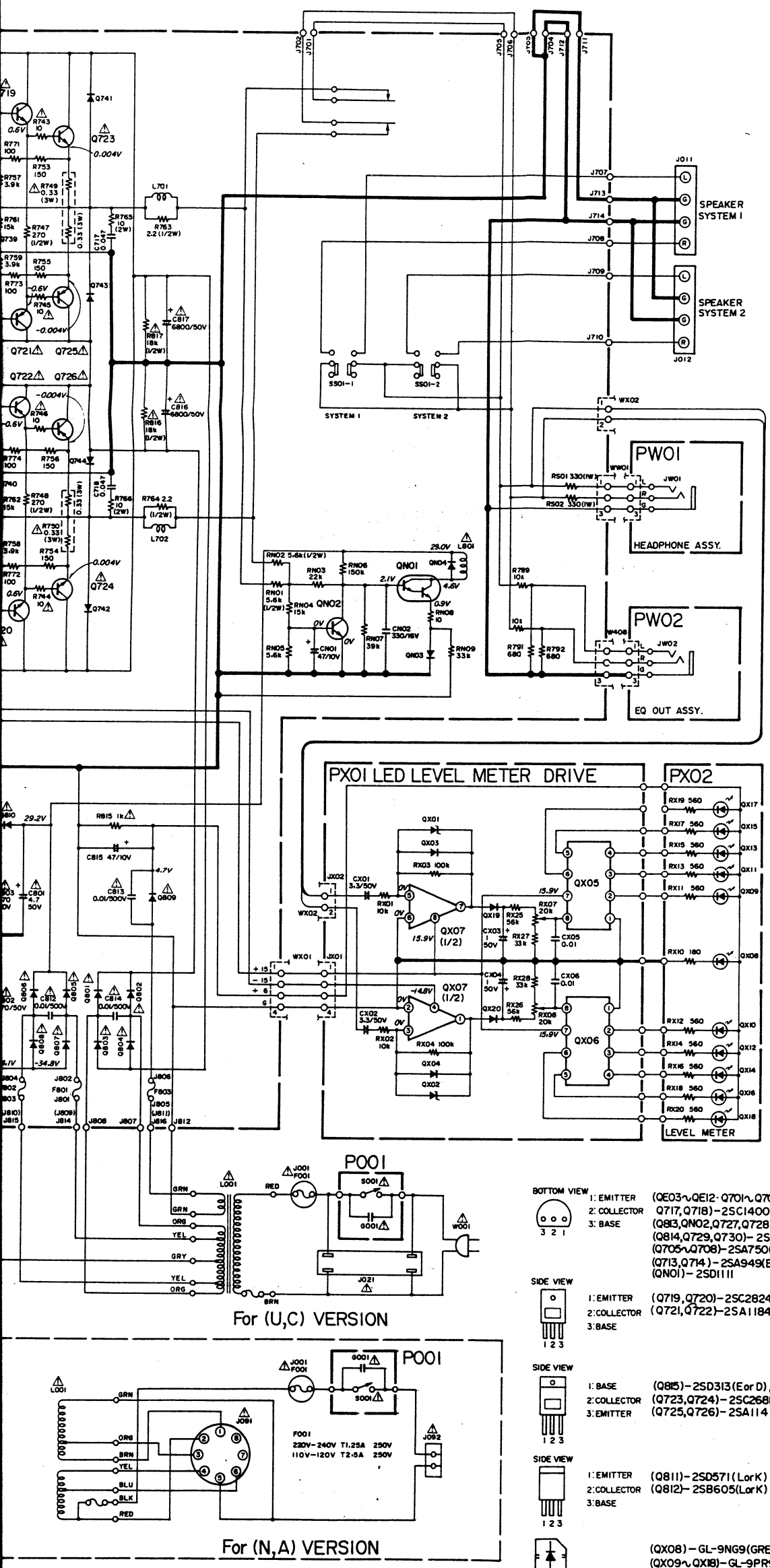
SIDE VIEW
1: BASE (Q815)-2SD313(E or D), (Q816)-2SB507(E or D)
2: COLLECTOR (Q723, Q724)-2SC2681(Q or R)
3: EMITTER (Q725, Q726)-2SA1141(Q or R)

SIDE VIEW
1: EMITTER (Q811)-2SD571(L or K)
2: COLLECTOR (Q812)-2SB605(L or K)
3: BASE

LED (QX08)-GL-9NG9(GREEN)
(QX09~QX18)-GL-9PR9(RED)

Components and wiring are subject to change for modification without notice.

Model PM550DC



Q401,Q402 HC10035010 HAI2017	Q801∿Q804 HD20011290 S3V-20	QN01 HT411111A0 2SD1111
Q701∿Q704 HT314001E0 2SC1400(E)	Q805∿Q810 HD20015030 DS-135	QN02 HT309451P0 2SC945(P)
Q705∿Q708 HT107501B0 2SA750(E)	Q811 HT405712B0 2SD571(LorK)	QN03,QN04 HD20002210 IS2472
Q709,Q710 HT314001E0 2SC1400(E)	Q812 HT206052B0 2SB605(LorK)	
Q711,Q712 HT109701B0 2SA970(BL)	Q813 HT309451P0 2SC945(P)	QX01,QX02 HD30076090 WZ-038
Q713,Q714 HT109491B0 2SA949(BL)	Q814 HT107331P0 2SA733(P)	QX03,QX04 HD20001210 IS2473
Q715,Q716 HT322292A0 2SC2229 (OorY)	Q815 HT403132A0 2SD313(EorD)	QX05,QX06 HC10008370 TL489C
Q717,Q718 HT314001E0 2SC1400(E)	Q816 HT205072A0 2SA507(EorD)	QX07 HC10019020 A6552
Q719,Q720 HT328242A0 2SC2824(OorY)	Q817 HD20008210 IS2473	QX08 HI10006320 GL-9NG9(GREEN)
Q721,Q722 HT111842A0 2SA1184(OorY)	Q818 HD30013010 HZI5A2L	QX09∿QX18 HI10007320 GL-9PR9(RED)
Q723,Q724 HT326812A0 2SC2681(OorR)		
Q725,Q726 HT111412A0 2SA1141(OorR)	QE01,QE02 HC10008370 TL489C	
Q727,Q728 HT309451P0 2SC945(P)	QE03∿QE12 HT314002A0 2SC1400(E)	
Q729,Q730 HT107331P0 2SA733(P)		
Q731∿Q736 HD20001210 IS2473(C)		
Q737∿Q740 HD20002210 IS2472		
Q741∿Q744 HD20005010 W068		
Q745,Q746 HD20008210 IS2471(F)		

BOTTOM VIEW

1: EMITTER
2: COLLECTOR
3: BASE

(QE03∿QE12·Q701∿Q704·Q709∿Q710 Q717,Q718)-2SC1400(E)
(Q813,QN02,Q727,Q728)-2SC945(P)
(Q814,Q729,Q730)-2SA733(P)
(Q705∿Q708)-2SA750(E),(Q715,Q716)-2SC2229(OorY)
(Q713,Q714)-2SA949(BL),(Q711,Q712)-2SA970,
(QN01)-2SD1111

SIDE VIEW

1: EMITTER
2: COLLECTOR
3: BASE

(Q719,Q720)-2SC2824(OorY)
(Q721,Q722)-2SA1184(OorY)

SIDE VIEW

1: BASE
2: COLLECTOR
3: EMITTER

(Q815)-2SD313(EorD),(Q816)-2SB507(EorD)
(Q723,Q724)-2SC2681(QorR)
(Q725,Q726)-2SA1141(QorR)

SIDE VIEW

1: EMITTER
2: COLLECTOR
3: BASE

(Q811)-2SD571(LorK)
(Q812)-2SB605(LorK)

LED

(QX08)-GL-9NG9(GREEN)
(QX09∿QX18)-GL-9PR9(RED)

SIDE VIEW

1 2 3 4 5 6 7 8

(Q401,Q402)-HA12017

TOP VIEW

8 7 6 5
1 2 3 4

(Q743,QE01,QE02)-NJM4558D
(QX07)-AN6552
(QX05,QX06)-TL489C

nge for modification without notice.